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COMPLIMENTS OF  
*David P. [illegible]*  
BUREAU OF LAND  
[illegible]

I Illinois  
and Mineral Rights  
VHUB



Twenty-Third Annual Coal Report

OF THE

★ Illinois Bureau of  
**LABOR STATISTICS**

~~1904~~ 1903/04

ALSO THE

Sixth Annual Report

OF THE

Illinois Free Employment Offices

FOR THE

Year Ended Oct. 1, 1904.

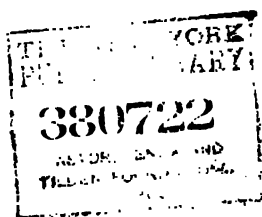
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DAVID ROSS, *Secretary*, Springfield.



SPRINGFIELD:  
ILLINOIS STATE JOURNAL CO., STATE PRINTERS.

1905. *GW*



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1904.

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1904.

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1904.

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## *Second District.*

THOMAS HUDSON, Galva.

## *Third District.*

JAMES TAYLOR, Peoria.

## *Fourth District.*

THOMAS WEEKS, Bloomington.

## *Fifth District.*

WALTON RUTLEDGE, Alton.

## *Sixth District.*

JOHN DUNLOP, Centralia.

## *Seventh District.*

EVAN D. JOHN, Carbondale.



5

COMPLIMENTS OF  
*David P.*  
BUREAU OF LAND  
OFFICE

I'll  
And Mineral  
W.H.T.



STATE OF ILLINOIS,  
OFFICE OF THE BUREAU OF LABOR STATISTICS,  
SPRINGFIELD, Jan. 1, 1905.

HON. RICHARD YATES, *Governor of Illinois*:

SIR—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twenty-third annual report of the coal industry of the State for the year ended July 1, 1904, together with the sixth annual report of the Illinois Free Employment offices.

Very respectfully,

DAVID ROSS,  
*Secretary.*





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less than the 525,000 miners employed in the United States; while the cost or value of the product at the mines there was nearly \$100,000,000 more. We select Great Britain for the purpose of comparison because it is the most advanced of European countries, and until quite recently was first in the list of manufacturing nations. Those who have had experience in both countries know that investments in coal properties yield very much larger profits there than here.

Aside from those who are pecuniarily interested in the coal business the chief concern of the humanitarian is the loss of lives incident to the operation of mines. Mortality from different causes seems to keep pace with the volume of production. The year covered by this report exceeds all others, the number killed being 157 or 2.87 per 1,000 employés. This is over one-half more than the fatal accident rate in the British mines. The number of non-fatal accidents was 507, an increase of 97 over the previous year.

According to the table of classified causes, one half of the fatal and non-fatal accidents resulted from falling coal and rock. It is impossible to determine the per cent of accidents listed under this head, due to the use of powder, although the majority of them accrue in the districts where the method of blasting off the solid prevails. Whatever the causes, whether they result from the lack of knowledge in the preparation of blasts, the drilling of dead holes, the adulteration of explosives, the accumulation of dust on the roadways, blasting off the solid or the indifference or carelessness of men accustomed to the dangers of the miners' occupation, the death rate particularly is entirely too high and some other measures should be tried to reduce it. It was hoped the law passed by the last General Assembly, limiting the quantity of powder to be used in any one blast, would diminish the fatalities heretofore due to that source. The law has been in force nearly two years and the number of fatal accidents, instead of diminishing, has, in fact, increased. Either its requirements have not been observed by the miners or the facts are strangely out of joint with our expectations. Of the several propositions that have been offered, two are worthy of some consideration. The first, proposed by representatives of the coal operators, is that the present run of mine system be abolished and the miners required to under-cut or shear the coal. To require that all coal be undermined would, to a very great extent, dispense with the necessity for powder and naturally avoid the accidents due to the use of explosives; and that regardless of whether the present system of paying for mining coal is to be continued or not. The objections urged to this plan are two-fold: First, that the mine run system of this State is provided for by contract presumably satisfactory to both interests and which, under its terms, will continue to operate until the 31st of March, 1906. and second, the low rate of mining fixed by the same contract, was made possible in consequence of the general and recognized practice of blasting off the solid. If the interest of the mine operators in the cause of reducing accidents, is strong enough and sincere enough to warrant a return to the methods of the pick miners, and their employment favored in preference to that of the coal "butcher," then they must be

prepared to concede a substantial advance in the mining rate fixed for the thicker seams. On the other hand the miners, or many of them, think the number of accidents would be materially lessened through the enactment of a law requiring the employment, at the company's expense, of men to be known as shot firers, whose duties would be, after the miners had quit work for the day, to visit each working place and discharge such shots as in their judgment should be fired. It is obvious that under this plan, whatever explosions might occur, only the lives of the firers would be exposed and imperiled and their number would not exceed four in the larger class of mines. So terrific has been the force developed from blown-out shots that some of our most competent and experienced inspectors assert that under certain circumstances they would not be surprised to learn at any time of scores of men being killed as the result of an improper blast. Another evident point in favor of this plan is that it would tend to educate men in the use of explosives and in the proper preparation of shots. The miner who drilled a hole dead or located it in such a manner that the powder had no possible chance of doing the work expected of it, would be punished in the most effective way, by having no coal to load the following morning. He could profitably put in the day learning the forgotten art of pick mining or change the location of the shots. The law, if one is passed, should be explicit in delegating to the shot firer the discretion and authority of firing or not, according as his judgment suggested the propriety or safety of doing so. The anticipated objection to this plan on the part of the employers, would be that of requiring them to pay for that class of labor. It is claimed by those who favor this method that financially the operators would be the gainers, that there is from twenty to thirty minutes lost every day, by miners and company men, on account of the present general practice of shooting at or about quitting time. If this contention can be sustained the saving of nearly half an hour's time during every working day would more than compensate the operators for the additional expense incurred on account of the employment of shot firers. While the employment of shot firers would no doubt materially reduce the number of fatalities, resulting from explosions, the precaution of the miners, where coal is blasted off the solid, should go further and require the shot firers to prepare as well as discharge the blast. By thus divorcing the workmen from all connection with explosives, the cause of accidents from that source would be entirely removed, while it would reduce to a minimum the dangers to which the shot firers are necessarily exposed. The immediate necessity for doing something to reduce or prevent the occurrence of accidents is everywhere apparent and it is the result, more than the medium through which it is hoped to reach it, that is most desired.

The aggregates and averages of all the leading particulars reported by the seven State inspectors, are shown in the following summary for the year:

### SUMMARY FOR THE YEAR ENDED JUNE 30, 1904.

Number of counties producing coal.....	54
Number of mines and openings of all kinds.....	932
New mines or old mines re-opened during the year.....	108
Mines closed or abandoned since last report.....	109
Total output of all mines in tons of 2,000 pounds.....	37,077,897
Number of shipping or commercial mines.....	389
Total output of shipping mines, tons.....	35,779,517
Number of mines in local trade only.....	532
Output of local mines, tons.....	1,298,380
Total tons of mine run coal.....	10,627,904
Total tons of lump coal.....	16,888,049
Total tons of egg coal.....	1,014,700
Total tons of nut coal.....	1,602,383
Total tons of pea coal.....	5,751,570
Total tons of slack coal.....	1,193,330
Total tons shipped.....	31,778,289
Tons supplied to locomotives at the mines.....	1,223,009
Tons sold to local trade.....	2,521,623
Tons consumed (or wasted) at the plant.....	1,554,088
Average days of active operation for shipping mines.....	219
Average days of active operation for all mines.....	197
Average value per ton all grades at the mines.....	\$1.10
Average value per ton of mine run coal at the mines.....	\$1.08
Average value per ton of lump coal at the mines.....	\$1.37
Average value per ton of egg coal at the mine.....	\$1.30
Average value per ton of nut coal at the mine.....	\$1.0494
Average value per ton of pea or screenings coal at the mines.....	\$0.5613
Average value per ton of slack coal at the mine.....	\$0.3338
Aggregate home value of total product.....	\$40,774,223
Number of mines in which mining machines are used.....	65
Number of mining machines in use.....	608
Number of tons undercut by machines.....	7,400,948
Number of tons mined by hand.....	29,677,954
Average number of miners employed during the year.....	37,897
Average number of other employes underground.....	9,813
Average number of boys employed underground.....	1,862
Average number of employes above ground.....	5,413
Total employes.....	54,774
Number of men at work under ground.....	49,361
Number at work on surface.....	5,413
Average price paid per gross ton for hand mining, shipping mines.....	\$0.3693
Average price paid per gross ton for machine mining.....	\$0.4650
Number of kegs of powder used for blasting coal.....	923,418
Number of kegs of powder used for other purposes.....	3,717
Number of men accidentally killed.....	157
Number killed inside of the mines.....	148
Number killed outside of the mines.....	9
Number of wives made widows.....	81
Number of children left fatherless.....	231
Number of men injured so as to lose a month or more time.....	507
Number of gross tons mined to each life lost.....	236,116
Number of employes to each life lost.....	341
Number of deaths per 1,000 employed.....	2.81
Number of gross tons mined to each man injured.....	73,132
Number of employes to each man injured.....	108

This year records 54 counties producing coal; there were 53 counties last year. Two counties, Edgar and Franklin, are added to the list this year, while Wabash county reports no coal mined during the year.

The number of mines is 932, one less than last year. The most noticeable change, concerning the number of mines, is the increase in the number of shipping mines. The number in this class for the year is 380; last year there were 353, giving an increase of 27 mines, or 7.93 per cent. Of the local mines the decrease in the number is 28 from last year.

The number of tons, all grades, produced, was 37,077,897, an increase of 2,122,497 tons, or 6.07 per cent over last year.

The total number of employes was 54,774, being an increase of 4,960, or 9.96 per cent.

The average number of days for the shipping mines was 213, which is nine days less than last year.

#### CLASSIFICATION OF MINES.

In the table following is presented the number of mines, men and tons, by districts and for the State, also a division giving the same information for shipping and local mines:

TABLE 1—*Mines, Men and Tons, Shipping and Local Mines, by Districts, 1904.*

DISTRICT.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First .....	88	8,038	3,450,315	41	7,698	3,322,268	47	340	128,047
Second .....	171	7,362	3,322,490	28	6,508	3,036,056	143	854	286,434
Third .....	238	4,808	3,058,414	55	3,849	2,707,067	183	959	351,347
Fourth.....	96	7,298	5,142,786	46	6,787	4,901,660	50	506	241,126
Fifth .....	102	9,541	7,280,287	53	9,261	7,177,268	49	280	103,019
Sixth.....	117	9,665	8,634,726	84	9,433	8,530,028	33	232	104,698
Seventh.....	120	8,067	6,188,879	73	7,848	6,105,170	47	219	83,709
The State.	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380

The foregoing is supplemented by the following percentages of each class:



TABLE 2—*Percentages of Mines, Men and Tons, all Mines, and of Shipping and Local Mines, 1904.*

DISTRICT.	PERCENTAGES.								
	ALL MINES.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First .....	9.46	14.75	9.33	46.59	95.77	96.20	53.41	4.23	3.80
Second .....	18.39	13.50	8.98	16.37	88.40	91.38	83.63	11.60	8.82
Third .....	25.59	8.82	8.26	23.11	80.05	83.51	76.89	19.93	11.49
Fourth.....	10.32	13.38	13.90	47.92	93.06	95.31	52.08	6.94	4.69
Fifth.....	10.97	17.50	19.67	51.96	97.07	98.58	48.04	2.93	1.42
Sixth.....	12.58	17.73	23.34	71.79	97.60	98.79	28.21	2.40	1.21
Seventh .....	12.69	14.32	16.52	60.83	97.29	98.65	39.17	2.71	1.35
The State.....	100.00	100.00	100.00	40.77	93.81	96.50	59.23	6.19	3.50

Very few changes will be found in these percentages from last year; however, the number of shipping mines has increased 3 per cent, while the number of local mines has decreased proportionately.

The shipping mines show 40.77 per cent of the mines, 93.81 per cent of the men and 96.50 per cent of the tonnage. The local mines represent 59.23 per cent of the mines, 6.19 per cent of the men and 3.50 per cent of the tons.

A comparative table of mines, men and tons for the years 1903 and 1904, showing by districts the increase and decrease in each, follows:

TABLE 3—*Mines, Men and Tons, for the years 1903 and 1904, with the Increase or Decrease by Districts.*

DISTRICT.	TOTALS—1903.			TOTALS—1904.			INCREASE (+) OR DECREASE (—) FOR Yr. 1904		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First .....	74	7,717	3,748,651	88	8,038	3,450,315	+14	+ 321	+206,336
Second .....	181	6,860	3,245,781	171	7,362	3,322,490	—10	+ 502	+ 76,709
Third .....	243	4,363	2,708,350	238	4,806	3,058,414	— 5	+ 445	+350,064
Fourth .....	87	6,771	4,772,284	96	7,293	5,142,786	+ 9	+ 522	+370,502
Fifth.....	101	8,393	7,070,903	102	9,541	7,280,287	+ 1	+ 148	+209,384
Sixth.....	113	8,354	7,734,831	117	9,665	8,634,726	+ 4	+1,311	+899,895
Seventh.....	134	7,356	5,674,600	120	8,067	6,188,879	—14	+ 711	+514,279
The State...	933	49,814	34,955,400	932	54,774	37,077,897	—1	+4,960	+2,122,497

The first, fourth, fifth and sixth districts show an increase in the number of mines, while the second, third and seventh show a decrease, the net decrease being one mine.

All the districts show an increase in the number of men employed, the net increase being 4,960 men.

The first district is alone in the decrease of the output of coal; all the other districts show an increase, the net increase being 2,122,497 tons. The sixth and seventh districts account for 66.63 per cent of this increase.

The total number of mines, men and tons, with the sub-division of shipping and local mines for 12 years, is presented in the following table:

TABLE 4—*Mines, Men and Tons, Shipping and Local Mines, for Twelve Years.*

YEAR.	TOTAL.			SHIPPING.			LOCAL		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,890	19,949,564	310	28,737	19,257,682	478	6,653	691,882
1894.....	836	38,477	17,113,576	319	31,243	16,106,613	517	7,234	1,006,963
1895.....	874	38,630	17,735,864	319	31,174	16,578,890	555	7,456	1,156,974
1896.....	901	37,032	19,786,626	330	28,185	18,263,056	571	8,847	1,523,570
1897.....	853	33,788	20,072,758	310	31,322	19,386,573	543	2,466	686,185
1898.....	881	35,026	18,599,299	329	32,297	17,655,561	552	2,729	943,738
1899.....	889	36,991	23,434,445	323	34,307	22,531,356	566	2,684	903,089
1900.....	920	39,384	25,153,929	323	36,298	24,056,996	597	3,086	1,096,933
1901.....	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503
1902.....	915	46,005	30,021,300	332	42,807	28,624,750	583	3,198	1,196,550
1903.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863
1904.....	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380

This presents the activity of all the mines in the State, for the period covered, and also for the two classes of mines, shipping and local. For this year the shipping mines show an average of 135 men and 94,157 tons to each mine, while the local mines disclose an average of only six men and 2,352 tons to each mine.

To further set forth the relative efficiency of the two classes of mines for the same period, the totals of each class has been reduced to percentages, as presented in the following table:

TABLE 5.—*Mines, Men and Tons, with Percentages of Shipping and Local Mines for Twelve Years.*

YEARS.	TOTALS—ALL MINES.			PERCENTAGES.					
				SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	39.34	81.20	96.53	60.66	18.80	3.47
1894.....	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90
1895.....	874	38,630	17,735,864	36.50	80.70	93.48	63.50	19.30	6.32
1896.....	901	37,032	19,786,626	36.62	76.11	96.28	63.33	23.89	3.74
1897.....	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1898.....	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1899.....	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1900.....	920	39,384	25,153,929	35.11	92.16	93.64	64.89	7.84	4.36
1901.....	915	44,143	26,635,319	36.17	92.71	95.84	63.83	7.29	4.16
1902.....	915	46,005	30,021,300	36.28	93.05	96.01	63.72	6.95	3.99
1903.....	933	49,814	34,955,400	37.83	93.34	96.34	62.17	6.66	3.66
1904.....	932	54,774	37,077,897	40.77	93.81	96.50	59.23	6.19	3.50

The shipping mines show the largest percentages of mines and men reached during the 12 years, also the largest percentage of tons during the same period, excepting the years 1893 and 1897. The tonnage of the mines in the several districts, contributed by the shipping mines, is shown in the following table reduced to percentages:

TABLE 6.—*Percentage of the Tonnage of Shipping Mines of each District and of the State for Twelve Years.*

YEAR.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1893 .....	97.2	88.8	93.1	98.9	98.6	.....	.....	96.53
1894 .....	98.8	83.0	91.7	98.8	93.7	.....	.....	94.10
1895 .....	93.7	86.8	90.6	99.0	91.3	.....	.....	93.48
1896 .....	96.2	92.6	78.9	95.1	99.2	98.7	96.6	96.26
1897 .....	97.29	92.99	78.91	95.20	99.32	98.55	97.82	96.53
1898 .....	91.35	88.61	78.59	93.69	99.12	98.48	98.11	94.93
1899 .....	94.73	92.53	79.93	95.43	98.81	98.57	98.52	96.15
1900 .....	95.81	89.14	87.18	95.47	98.39	98.84	96.47	95.64
1901 .....	96.68	89.38	85.98	94.65	98.65	98.64	97.63	95.84
1902 .....	94.93	91.89	85.54	95.36	98.82	98.73	98.37	96.01
1903 .....	94.78	92.16	85.65	95.83	98.86	98.98	95.96	96.34
1904 .....	96.20	91.38	88.51	95.31	98.58	98.79	98.65	96.50

The fifth, sixth and seventh districts show the largest percentages, as the output of shipping mines for the past nine years, while for the State the product of these mines will average 96 per cent of the total output for the 12 years.

The foregoing classification of mines is more specifically shown in the grouping of all the mines by districts based on their tonnage for the year, as follows:

TABLE 7—*Grouping of Mines by Tonnage and Districts—1904.*

DISTRICT.	TONNAGE OF MINES PRODUCING—											
	Under 1,000.		1,000 and under 10,000.		10,000 and under 50,000.		50,000 and under 100,000.		100,000 and under 200,000.		200,000 and over.	
	♢ Z	Tons.	♢ Z	Tons.	♢ Z	Tons.	♢ Z	Tons.	♢ Z	Tons.	♢ Z	Tons.
First.....	23	10,505	30	101,898	10	203,165	9	697,328	15	2,154,096	1	283,325
Second.....	79	31,723	68	220,088	10	228,855	2	127,143	5	689,940	7	2,024,791
Third.....	110	44,794	73	259,504	37	863,459	9	622,096	8	1,066,616	1	201,945
Fourth.....	17	8,269	34	108,143	20	465,714	5	368,108	11	1,398,312	9	2,794,245
Fifth.....	34	14,741	17	55,199	7	206,197	7	576,046	28	3,955,254	9	2,472,850
Sixth.....	11	5,777	23	93,613	34	1,024,787	22	1,640,195	15	2,218,197	12	3,652,157
Seventh.....	27	10,588	30	95,647	22	610,483	18	1,169,642	16	2,271,560	7	2,030,959
The State..	301	126,397	275	934,042	140	2,802,660	72	5,200,551	98	13,763,975	46	13,460,272

This shows the mines of the State divided into six groups, according to the tons of coal produced. Reducing these groups to two, it is found that the smaller mines, or those producing less than 50,000 tons, number 716, or 76.82 per cent of the total number, and furnished 4,663,099 tons, or 12.58 per cent of the coal, while the large mines, or those yielding 50,000 tons or over, are only 216, or 23.18 per cent, but produced 32,414,798 tons, or 87.42 per cent of the entire output.

Continuing the comparison a table of the two groups referred to is presented, showing the percentages of mines and tons in each group by districts:

TABLE 8—*Percentages of Mines and Tons in Two Specified Classes by Districts.*

DISTRICT.	MINES PRODUCING—			
	LESS THAN 50,000 TONS.		OVER 50,000 TONS.	
	Mines.	Tons.	Mines.	Tons.
First .....	71.59	9.15	28.41	90.85
Second .....	91.81	14.47	8.29	85.53
Third .....	92.44	38.18	7.56	61.82
Fourth .....	73.96	11.32	26.04	88.68
Fifth .....	56.86	3.79	43.14	96.21
Sixth .....	58.12	13.02	41.88	86.98
Seventh .....	65.83	11.58	34.17	88.42
The State .....	76.82	12.58	23.18	87.42

The second and third districts show much the largest percentage of mines whose output is less than 50,000 tons, the first and fourth come next, while the fifth, sixth and seventh districts show considerable less than the four first named.

Referring to the tonnage of these mines, the third district presents by far the largest per cent of tonnage, while the fifth and first districts decidedly the smallest; the other four districts show nearly the same percentage of tonnage and correspond closely to that shown for the State.

Observing the percentages of the larger mines, it will be seen that the second and third districts show a very small per cent of the mines producing over 50,000 tons; the fifth district shows the largest per cent of mines in this class, also the largest per cent of tonnage. However, all the districts show the importance of the comparatively small number of mines as producers of the large percentages of coal.

This subject matter is further set forth in the following table:

TABLE 9—*Classification of Mines as to Tonnage, with Percentages of Mines and Tons, 1904.*

MINES PRODUCING.	Number of mines.	Tonnage.	PERCENTAGE OF	
			Mines.	Tons.
Less than 1,000 tons .....	301	126,397	32.30	3.1
One thousand and less than 10,000 tons .....	275	984,042	29.50	2.3
Ten thousand and less than 50,000 tons .....	140	3,602,660	15.02	9.1
Fifty thousand and less than 100,000 tons .....	72	5,200,551	7.73	14.6
One hundred thousand and less than 200,000 tons ..	98	13,753,975	10.51	37.6
Two hundred thousand tons and over .....	48	13,460,272	4.94	36.1

Here it will be seen that the mines with an output of less than 10,000 tons number 576 or 61.80 per cent of the whole number. These same mines produced 1,060,439 tons or only 2.86 per cent of the total output.

The mines producing 100,000 tons and over number 144 or 15.45 per cent of all mines, but produce 27,214,247 tons or 73.39 per cent of the entire tonnage.

The classification of the mines of the State, as indicated in the foregoing groupings, has been shown in these reports from year to year, and is continued as shown in the following table:

TABLE 10—*Number of Mines in Specified Groups of Tonnage for a Series of Twenty-two Years.*

YEAR.	NUMBER OF MINES PRODUCING—						Total mines.
	Under 1,000 tons.	1,000 and under 10 000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.	
1883 .....	209	233	133	39	10	15	639
1884 .....	262	273	148	38	16	4	741
1885 .....	286	290	143	40	13	1	778
1886 .....	216	280	135	44	11	3	789
1887 .....	320	278	141	42	18	2	801
1888 .....	327	272	151	47	20	5	822
1889 .....	321	316	139	55	20	3	854
1890 .....	398	301	155	54	24	4	936
1891 .....	403	260	161	52	37	6	918
1892 .....	332	239	151	65	46	6	839
1893 .....	282	232	140	75	47	12	788
1894 .....	312	252	161	61	44	6	836
1895 .....	319	276	145	61	45	9	855
1896 .....	330	280	128	63	45	16	862
1897 .....	346	250	120	79	41	17	853
1898 .....	351	244	151	86	42	7	881
1899 .....	346	261	123	78	56	25	889
1900 .....	340	295	123	70	65	27	920
1901 .....	313	308	124	79	58	33	915
1902 .....	314	263	152	76	72	38	915
1903 .....	313	293	120	75	87	45	933
1904 .....	301	275	140	72	98	46	932

In this grouping no material change is shown in the number of mines from year to year, as classed in the first three columns; the averages for the years indicated are 320, 271 and 140 respectively.

The number of mines appearing in the last three columns, while varying slightly during the series of years, show a decided increase, especially those representing the large tonnage.

However, as heretofore indicated, the smaller mines maintain their number as producers of coal.

For the purpose of comparing more fully the figures of the preceding exhibit, the following table of percentages is presented:

TABLE 11—*Percentages of Mines in Specified Grouping of Tonnage for a Series of Twenty-two Years.*

YEAR.	Total Mines.	PERCENTAGES OF MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1883.....	639	32.71	36.47	20.81	6.10	1.56	2.35
1884.....	741	35.36	36.84	19.97	5.13	2.16	.54
1885.....	778	36.76	37.27	18.38	5.14	2.32	.13
1886.....	789	40.05	35.49	17.11	5.58	1.39	.38
1887.....	801	39.95	34.71	17.60	5.24	2.25	.25
1888.....	822	39.79	33.09	18.37	5.71	2.43	.61
1889.....	854	37.59	37.00	16.28	6.44	2.34	.35
1890.....	936	42.52	32.16	16.56	5.77	2.56	.43
1891.....	918	43.79	28.32	17.54	5.67	4.03	.65
1892.....	839	39.69	29.44	17.76	7.03	4.89	1.19
1893.....	768	35.91	29.44	16.24	10.92	5.71	1.73
1894.....	836	37.08	29.07	19.62	8.25	5.26	.72
1895.....	859	36.43	33.29	16.65	7.33	5.25	1.05
1896.....	874	38.90	30.66	14.88	8.35	5.61	1.60
1897.....	853	40.56	29.31	14.07	9.26	4.81	1.99
1898.....	881	39.84	27.70	17.14	9.76	4.77	.79
1899.....	889	38.92	29.36	13.84	8.66	6.41	2.81
1900.....	920	36.96	32.07	13.37	7.61	7.06	2.93
1901.....	915	34.21	33.66	13.55	8.63	6.34	3.61
1902.....	915	34.32	28.74	16.61	8.31	7.87	4.15
1903.....	933	33.55	31.40	12.86	8.04	9.33	4.82
1904.....	932	32.30	29.50	15.02	7.73	10.51	4.94

The tonnage of the mines as classified is shown for 13 years in the following table:

TABLE 12—*Grouping of Mines by Tonnage for a Series of Thirteen Years.*

YEAR.	TONNAGE OF MINES PRODUCING—					
	Under 1,000 tons.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,987	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	838,989	3,393,827	5,795,953	8,006,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405
1904.....	126,397	934,042	3,602,660	5,200,551	13,753,975	13,460,272

Here it is shown that a close uniformity in tonnage is maintained in most of the groupings; however, a decided increase is disclosed in the output of the two groups, having a yield of 100,000 tons and over.



A better comparison of the production of coal in the different groupings for the 15 years may be found in the following table of percentages:

TABLE 13—*Percentages of Tons Produced by Specified Grouping of Tonage for Thirteen Years.*

YEARS.	Total Tons.	PERCENTAGE OF TONS PRODUCED BY MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1892.....	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893.....	19,949,564	.61	3.64	15.70	30.98	31.54	17.53
1894.....	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1895.....	17,735,864	.85	4.88	20.35	24.91	35.79	13.22
1896.....	19,784,334	.72	4.08	16.51	25.52	33.14	20.08
1897.....	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898.....	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899.....	23,434,445	.59	3.58	12.28	23.97	31.76	28.02
1900.....	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901.....	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902.....	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903.....	34,955,400	.36	2.49	9.72	15.58	35.44	36.41
1904.....	37,077,897	.34	2.52	9.72	14.03	37.09	36.30

#### COLLIERIES OF LARGEST OUTPUT.

The large collieries of the State have been given for a number of years in these reports. One list included all the mines having an output of 100,000 tons and less than 200,000: the other, all mines with an output of 200,000 tons and over. These tables for the year follow:

TABLE 14—*Mines from which more than 100,000 Tons and less than 200,000 Tons of Coal have been delivered during the year 1904*

Rank.	COMPANIES.	Location.	Tons.
1	Southern Illinois Coal Mining & Washing Co. No. 3.	Marion .....	198,794
2	Capitol Cooperative Coal Co. ....	Springfield .....	197,344
3	Consolidated Coal Co. No. 8. ....	Mount Olive .....	195,133
4	Empire Coal Co. No. 3 .....	Gilchrist .....	191,900
5	Kerns-Donneiwald Coal Co. No. 1 .....	Worden .....	190,015
6	LaSalle County Carbon Coal Co. No. 1 .....	LaSalle .....	189,789
7	Christian County Coal Co. ....	Taylorville .....	188,113
8	Springfield Coal Mining Co. No. 5 .....	Springfield .....	186,439

Table 14—Continued.

COMPANIES.	Location.	Tons.
Wilmington & Vermillion Coal Co. No. 2....	South Wilmington.....	185,245
Walnut Coal Co.....	Pinckneyville.....	184,769
Coal Co.....	Girard.....	183,812
uth Coal Co. No. 1.....	Brereton.....	183,051
l Coal Co. No. 1.....	Sandoval.....	182,543
ddy Coal & Iron Co., Harrison.....	Murphysboro.....	182,101
Coal Co.....	Sorento.....	176,116
dated Coal Co.....	Breese.....	174,807
dated Coal Co. No. 7.....	Mount Olive.....	174,273
Coal & Mining Co., Royal.....	Belleville.....	172,442
dated Coal Co. No. 7.....	Staunton.....	171,733
Coal & Ice Co.....	New Baden.....	170,469
Coal Co., Acme.....	Streator.....	166,260
County Carbon Coal Co., Union.....	LaSalle.....	166,085
rginia Coal Co. No. 1.....	Lake Creek.....	165,710
County Carbon Coal Co., LaSalle.....	LaSalle.....	163,078
ood Coal Co., Black Hawk.....	Peoria.....	162,749
ield Coal Mining Co. No. 4.....	Springfield.....	162,193
dge Mining Co.....	Greenridge.....	161,834
de Coal Co.....	Springfield.....	160,536
ield Coöperative Coal Co.....	Springfield.....	160,000
Coal & Ice Co., No. 1.....	Belleville.....	159,771
Wilmington & Vermillion Coal Co. No. 2....	Streator.....	159,562
n Illinois Coal Mining & Washing Co. No. 2..	Marion.....	157,305
lle Coal Co. No. 5.....	Braceville.....	156,799
ro Coal Co.....	Hillsboro.....	156,498
l Coal Mining Co., Penwell.....	Pana.....	156,267
County Carbon Coal Co., Rockwell.....	LaSalle.....	153,456
lley Mining Co. No. 2.....	Sherrard.....	151,203
nd Coal Co.....	Springfield.....	150,272
n County Coal Co.....	Bloomington.....	150,000
1 Coal Co.....	Trenton.....	149,816
dated Coal Co., Heinz Bluff.....	Collinsville.....	149,101
n Anthracite Coal & Coke Co., Eden.....	Sparta.....	148,000
o-Herrin Coal Co.....	Herrin.....	147,571
iew Coal Co.....	Greenview.....	145,772
ield Coal Mining Co. No. 1.....	Riverton.....	144,135
1 Coal Co.....	Athens.....	143,703

Table 14—Continued.

Rank.	COMPANIES.	Location.	Tons.
47	Virden Coal Co.....	Virden.....	141,642
48	Davenport Coal Co., Ledford.....	Ledford.....	139,071
49	Montgomery Coal Co.....	Paisley.....	136,888
50	Taylor & Cavanaugh No. 5.....	Carbon Hill.....	136,146
51	Jones & Adams Co. No. 2.....	Catlin.....	135,671
52	Springfield Coal Mining Co. No. 3.....	Springfield.....	132,435
53	Jefferson Coal Co.....	Springfield.....	131,082
54	Consolidated Coal Co., Abbey No. 3.....	Collinsville.....	131,062
55	Chicago & Big Muddy Coal & Coke Co. No. 1.....	Marion.....	128,429
56	Johnson City & Big Muddy Coal Mining Co.....	Lake Creek.....	128,399
57	Williamson County Coal Co.....	Lake Creek.....	128,331
58	Big Four Wilmington Coal Co. No. 3.....	Coal City.....	128,299
59	Sangamon Coal Co.....	Springfield.....	126,005
60	Cartersville Coal Co., Burr.....	Cartersville.....	125,223
61	Clark Coal & Coke Co., A.....	Peoria.....	122,230
62	Star Coal Co. No. 2.....	Kangley.....	122,140
63	Madison Coal Co. No. 3.....	Edwardsville.....	121,136
64	Wenona Coal Co. No. 1.....	Wenona.....	121,365
65	Auburn & Alton Coal Co.....	Auburn.....	121,000
66	Cantrall Coöperative Coal Co.....	Cantrall.....	116,661
67	Walnut-Hill Coal Co., Avery.....	Belleville.....	115,697
68	Spring Valley Coal Co. No. 4.....	Seatonville.....	115,176
69	Roanoke Coal Mining Co. No. 1.....	Roanoke.....	115,126
70	Kolb Coal Co. No. 1.....	Mascoutah.....	114,440
71	Newbent Coal Co. No. 2.....	Pana.....	113,977
72	Manufacturers' Fuel Co. No. 1.....	Duquoin.....	113,440
73	Oglesby Coal Co., Oglesby.....	Oglesby.....	113,066
74	New Ohio Washed Coal Co. No. 1.....	Cartersville.....	112,736
75	Alden Coal Co. No. 1.....	Wanlock.....	110,554
76	Pana Coal Co. No. 1.....	Pana.....	110,533
77	Manufacturers' Fuel Co., Springside.....	Pana.....	110,306
78	Horn's Colliery Co.....	Duquoin.....	110,134
79	Carlinville Coal Co.....	Carlinville.....	108,674
80	Wilmington & Springfield Coal Co.....	Springfield.....	108,2
81	Superior Coal & Mining Co. No. 1.....	Belleville.....	108,11
82	Moweaqua Coal Mining & Manufacturing Co. No. 1.....	Moweaqua.....	108,11
83	Wabash Coal Co. No. 1.....	Dawson.....	107,4
84	Citizens' Coal Mining Co., East Shaft.....	Lincoln.....	105,11

Table 14—Concluded.

COMPANIES.	Location.	Tons.
ding Coal Co. No. 1.....	Spaulding .....	105,673
lessen & Hegeler Zinc Co .....	LaSalle .....	105,357
ield Mining & Power Co.....	Litchfield .....	105,114
go Virden Coal Co. No. 3 .....	Chatham .....	104,861
Emerson Hakes No. 2.....	Rutland .....	104,814
Coal Mining Co.....	Norris .....	104,761
ington Star Mining Co. No. 6.....	Coal City .....	103,812
ns' Coal Mining Co., B.....	Springfield .....	103,353
omy Coal Mining Co., Economy.....	Danville .....	103,068
Bros., No. 3.....	Peoria .....	103,049
on Coal Co. No. 7.....	Belleville .....	101,883
ville District Coal Co.....	Marion .....	101,497
is Mining Co.....	Athens .....	101,301
msville Coal Co.....	Selbytown .....	100,295
otal tons .....		13,753,975

foregoing is a list of the operators of 98 collieries producing 0 tons and less than 200,000; last year the list contained 87 of this class; the year before 72 mines were represented in a r list.

following list of 46 mines presents the names of operators of ies whose output was over 200,000 tons:

15.—*Mines from which more than 200,000 tons of coal have been delivered during the year 1904.*

COMPANIES.	Location.	Days in operation.	Depth of mine.	Thickness of seam.	How worked.	Tons.
Bros. Coal & Coke Co. No. 1.....	Collinsville.....	264	135	7	H.	475,179
yville Coal Co. No. 3 .....	Westville .....	253	212	7	H.	442,028
nger & Davis No. 3-4.....	Centralia.....	250	637	6	H.	431,247
uddy Coal & Iron Co. No. 7.....	Herrin .....	257	140	9	H.	412,887
Bros. Coal & Coke Co. No. 2.....	Collinsville.....	249	245	7	M.	390,017
go, Wilmington & Vermilion Coal .....	Thayer .....	230	292	7.11	M.	387,652
ville Coal Co. No. 1 .....	Westville .....	275	210	7	H.	356,042
g Valley Coal Co. No. 1 .....	Spring Valley ..	267	345	3.6	H.	348,600
go, Virden Coal Co. No. 1 .....	Virden.....	230	320	7.6	M.	348,388
yville Coal Co., Himrod.....	Himrod.....	230	168	8	H.-M.	348,047

**Table 15—Concluded.**

In this list is given the number of days in operation, depth of the mine, thickness of the seam and the manner of working. These collieries represent only five per cent of the whole number of mines, but furnish 36 per cent of the total tonnage. Four of these mines produced over 400,000 tons, 14 over 300,000 tons, leaving 28 producing over 200,000 tons. One of the mines raising over 400,000 tons and working 250 days produced an average of 1,725 tons per day from a depth of 637 feet below the surface. These mines were in operation an average of 241 days; the average for all shipping mines was 213 days.

The two classes of large mines represented in the two tables, 14 and 15, when combined, account for 144 mines, or only 15 per cent of all the mines, but show a production of 27,214,247 tons of coal, or 73 per cent of the total output of the State.

#### NUMBER OF MINES.

The following table shows the gain and loss in the number of mines by districts during the year:

TABLE 16—*Gain and Loss in Number of Mines 1903-1904, by Districts.*

DISTRICT.	Total number of mines 1903	Number of new mines opened 1904	Total.	Number of mines abandon'd 1904	Total number of mines 1904	YEAR 1904.	
						Gain.	Loss.
First.....	74	20	94	6	88	14	.....
Second.....	181	23	204	33	171	.....	10
Third.....	243	13	256	18	238	.....	5
Fourth.....	87	11	98	2	96	9	.....
Fifth.....	101	14	115	13	102	1	.....
Sixth.....	113	10	123	6	117	4	.....
Seventh.....	134	18	152	32	120	.....	14
The State.....	933	109	1,042	110	932	.....	1

The number of mines this year is one less than last year. The first, fourth, fifth and sixth districts show a gain, while the second, third and seventh show a loss.

The following table exhibits the fluctuation in the number of mines opened and abandoned for a series of fifteen years:

TABLE 17—*Total Number of Mines, the Number Opened and Closed, also the Gain and Loss for 15 years.*

YEAR.	NUMBER OF MINES.					At close of year.
	At begin- ning of year.	Opened.	Closed.	Gain.	Loss.	
1890.....	854	176	94	82	.....	966
1891.....	936	92	110	.....	18	918
1892.....	918	59	138	.....	79	839
1893.....	839	69	120	.....	51	788
1894.....	788	156	106	48	.....	836
1895.....	836	116	78	38	.....	874
1896.....	874	142	115	27	.....	901
1897.....	901	70	118	.....	48	853
1898.....	853	120	92	28	.....	881
1899.....	881	129	121	8	.....	889
1900.....	889	147	116	31	.....	920
1901.....	920	138	143	.....	5	915
1902.....	915	111	111	.....	.....	915
1903.....	915	109	91	18	.....	933
1904.....	933	109	110	.....	1	932
Totals.....	.....	1,743	1,665	280	202	.....

The gain in the number of mines for the fifteen years is 280, while the loss has been 202, leaving a net gain of 78 mines.

#### SHIPPING MINES.

The shipping mines of the State for the year number 380; these mines are operated by 228 corporations, 20 firms, and 25 individuals, or a total of 273 operators. Forty-five of these operators have from two to 20 mines under one management. The total product of these mines was 35,779,517 tons, or 96.49 per cent of the total output of the State. These same mines loaded on cars at the mines for shipment to the markets 31,778,260 tons, or 88.82 per cent of their product. Of the remainder, 3.32 per cent was supplied to locomotives at the mines, 3.80 was sold to the local trade, and 4.06 consumed or wasted at the mines. The Consolidated Coal company has, for the past two years, with its 20 or more mines, been at the head of this list as the largest producer. This year the Kellyville Coal company heads the list with an output of 1,999,212 tons from its six mines; the Consolidated Coal company is second with 1,849,068 tons produced

; 20 mines. The Spring Valley Coal company; Madison Coal  
y; Donk Bros. Coal & Coke company; Chicago, Wilmington &  
ion Coal company; Springfield Coal Mining company, follow  
her respectively with over 1,000,000 tons.  
shows seven coal companies with an output of over 1,000,000  
st year there were six, and the year before four. The list fol-



## STATISTICS OF LABOR.

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904.

STATISTICS OF LABOR.									
NAME OF OPERATOR.		No. of mines.	Postoffice address, location of mine.	DISPOSITION OF OUTPUT.					Consumed and wasted at the mine.
				Total output, all grades.	Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.		
1	Kelleyville Coal Co.	6	.....	1,999,212	1,939,127	6,002	13,880	40,203	
	do	4	Westville	1,314,835	1,279,630	6,002	.....	29,203	
	do	1	Himrod	348,047	343,047	.....	.....	5,000	
	do	1	Kelleyville	338,330	316,450	.....	13,880	6,000	
2	Consolidated Coal Co.	20	.....	1,849,068	1,625,138	62,302	42,387	119,241	
	do	2	Collinsville	280,103	227,669	25,007	9,762	17,665	
	do	1	Troy	45,058	40,168	.....	1,761	3,129	
	do	5	Belleville	192,099	173,431	.....	1,687	16,981	
	do	1	Marissa	46,383	43,571	1,201	14	1,597	
	do	1	Fairmount	94,118	88,294	.....	2,620	3,234	
	do	1	Missionfields	30,285	27,603	.....	.....	2,682	
	do	3	Staunton	420,908	380,362	26,030	10,209	24,307	
	do	2	Mt. Olive	369,406	345,516	.....	4,064	19,826	
	do	1	Gillespie	66,988	44,959	10,064	5,235	6,070	
	do	1	Hornsby	42,145	34,552	.....	1,230	6,363	
	do	1	Breese	174,807	167,027	.....	1,768	5,992	
	do	1	Trenton	86,768	72,016	.....	2,937	10,795	

3	Spring Valley Coal Co.	1	1,305,124	1,207,846	17,534	25,704	54,584
	.do	4	1,189,946	1,106,324	17,534	21,206	44,882
	.do	1	115,178	101,022		4,502	9,051
4	Madison Coal Co.	6	1,205,377	1,086,164	37,146	16,947	55,120
	.do	1	286,880	273,616		4,354	8,910
	.do	1	224,330	184,860	28,797	1,508	9,165
	.do	2	471,148	438,550	3,370	4,049	27,179
	.do	1	121,136	106,638	979	5,653	7,866
	.do	1	101,883	94,500	4,000	1,383	2,000
5	Donk Bros. Coal & Coke Co.	4	1,175,010	1,139,751	2,553	6,400	26,306
	.do	2	885,196	842,227	2,553	2,718	17,698
	.do	1	291,302	280,812		3,682	6,806
	.do	1	18,512	16,712			1,800
6	Chicago, Wilmington & Vermilion Coal Co.	5	1,113,759	1,080,444		17,585	35,730
	.do	1	387,652	374,755		2,100	10,797
	.do	2	468,570	445,781		9,291	13,498
	.do	2	257,537	239,908		6,194	11,435
7	Springfield Coal Mining Co.	6	1,089,762	988,873	42,108	33,252	55,519
	.do	2	379,793	355,278	113	4,470	19,927
	.do	3	481,067	443,135		12,817	25,115
	.do	1	208,892	140,460	41,990	15,965	10,477
8	Big Muddy Coal & Iron Co.	3	832,769	790,420		3,279	39,080
	.do	2	419,872	392,857			27,015
	.do	1	412,887	397,563		3,279	12,045

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators	NAME OF OPERATOR.	No. of mines	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
9	Chicago-Virden Coal Co. ....	3	.....	691,252	661,413	.....	13,140	16,700
	.do .....	1	Auburn .....	287,963	231,678	.....	2,366	3,906
	.do .....	1	Chatham .....	104,881	98,155	.....	2,422	4,305
	.do .....	1	Virden .....	348,368	331,580	.....	8,322	8,486
10	LaSalle County Carbon Coal Co. ....	4	LaSalle .....	672,408	513,159	79,776	59,723	19,750
11	Manufacturers' Fuel Co. ....	8	.....	494,628	441,667	.....	30,367	22,574
	.do .....	1	Pana .....	110,503	101,435	.....	2,112	6,966
	.do .....	1	Nilwood .....	63,463	61,633	.....	1,825	.....
	.do .....	2	Duquoin .....	176,621	168,161	.....	2,660	5,810
	.do .....	1	Pinckneyville .....	65,453	60,732	.....	.....	4,676
	.do .....	2	St. Johns .....	51,759	49,127	.....	.....	2,632
	.do .....	1	Decatur .....	26,824	24	.....	23,900	2,500
12	Pittinger & Davis Co. ....	1	Centralia .....	431,247	279,862	102,637	20,353	23,365
13	Jones & Adams Co. ....	2	.....	397,662	376,669	.....	9,666	11,297
	.do .....	1	Springfield .....	281,991	246,051	.....	9,014	6,936
	.do .....	1	Catlin .....	135,671	130,648	.....	652	4,371
1	Westville Coal Co. ....	2	Westville .....	376,043	368,130	.....	3,562	4,350

	15	Willie Coal Mining Co.	4	257,144	220,129	1907	1,052	3,549
		do	1	241,751	147,405	89,744	182	378
		do	1	22,408	21,833			3,800
		do	2	92,990	86,490		2,700	
		Southern Illinois Coal Mining Co.	2	356,099	270,840		78,018	7,241
		Sunnyside Coal Co.	1	345,767	318,846		1,543	25,378
		Chicago & Carterville Coal Co.	1	343,006	329,268		2,702	11,086
		Devlin Coal Co.	1	339,239	283,344	30,718	6,282	18,865
		Muren Coal & Ice Co.	2	330,240	298,517	8,461	5,692	17,570
		do	1	159,771	140,579	8,461	3,292	7,439
		do	1	170,469	157,988		2,400	10,131
		St. Louis & O'Fallon Coal Co.	1	318,579	314,979	1,856	20	1,724
		Stanton Coal Co.	1	315,853	300,896	6,990	2,417	6,050
		Whitebreast Fuel Co.	3	309,735	298,603		597	10,535
		do	2	272,800	262,500		597	9,703
		do	1	36,985	36,103			882
		Citizens' Coal Mining Co.	3	292,165	225,284	37,682	14,713	14,486
		do	1	105,890	62,333	21,616	13,639	8,292
		do	2	186,235	162,951	16,066	1,074	6,194
		Lumaghi Coal Co.	2	272,469	268,442			4,027
		Breese Coal Mining Co.	1	271,697	227,267	36,000	6,000	2,400
		Marquette Third Vein Coal Co.	2	237,001	238,733		5,148	13,120
		do	1	247,142	231,714		3,126	12,302
		do	1	9,859	7,019		2,022	818

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
28	Wabash Coal Co.....	2	.....	251,309	237,048	.....	5,511	8,750
	.do.....	1	Dawson.....	107,606	101,189	.....	2,667	3,750
	.do.....	1	Athens.....	143,703	135,859	.....	2,844	5,000
29	Victor Coal Co.....	1	Pana.....	249,315	235,825	2,122	7,469	3,969
30	Illinois Third Vein Coal Co.....	1	Ladd.....	246,464	230,466	2,100	10,328	5,570
31	Missouri & Illinois Coal Co.....	4	.....	245,091	235,168	.....	804	9,119
	.do.....	1	Willisville.....	62,024	60,324	.....	450	1,250
	.do.....	3	Belleville.....	183,067	174,844	.....	354	7,969
32	Centralia Mining & Mfg. Co.....	1	Centralia.....	243,171	152,541	69,477	14,329	6,324
33	Latham Coal Co.....	1	Lincoln.....	230,099	206,069	.....	11,000	13,000
34	St. Louis & Big Muddy Coal Co.....	1	Dewmain.....	227,261	205,941	2,551	1,516	17,253
35	Newsam Bros.....	5	.....	225,492	209,224	.....	8,900	7,368
	.do.....	4	Peoria.....	181,768	170,325	.....	5,400	5,833
	.do.....	1	Farmington.....	43,734	38,699	.....	3,500	1,535
36	Muddy Valley Mining & Mfg. Co.....	1	Hallidayboro.....	222,516	150,251	69,912	2,353	.....
37	Coal Valley Mining Co.....	2	.....	222,056	209,639	292	3,175	8,950
	.do.....	1	Sherrard.....	151,203	141,774	62	3,175	6,192
	.do.....	1	Cable.....	70,853	67,865	230	.....	2,758



TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
56	Royal Coal Co.....	1	Belleville.....	172,442	163,442	.....	.....	9,000
57	Acme Coal Co.....	1	Streator.....	104,200	125,568	.....	10,789	29,903
58	New Virginia Coal Co.....	1	Lake Creek.....	165,710	165,710	.....	.....	.....
59	Mapleton Coal Co.....	1	Peoria.....	162,749	162,749	.....	.....	.....
60	Greenridge Mining Co.....	1	Greenridge.....	161,894	155,605	.....	3,559	2,680
61	Woodside Coal Co.....	1	Springfield.....	160,536	115,836	28,500	9,800	6,400
62	Springfield Cooperative Coal Co.....	1	Springfield.....	160,000	128,000	.....	28,000	4,000
63	Hillsboro Coal Co.....	1	Hillsboro.....	156,498	142,298	.....	9,945	4,255
64	Penwell Coal Co.....	1	Pana.....	156,287	125,980	9,217	12,109	8,981
65	Taylor & Cavanaugh.....	2	Carbon Hill.....	185,711	141,852	.....	3,534	10,325
66	Alden Coal Co.....	2	Wanlock.....	155,154	144,742	841	2,176	7,365
67	West End Coal Co.....	1	Springfield.....	150,272	115,201	11,052	20,038	3,981
68	McLean County Coal Co.....	1	Bloomington.....	150,000	30,000	35,000	60,000	25,000
69	Trenton Coal Co.....	1	Trenton.....	149,816	126,068	.....	10,049	13,699
70	Western Anthracite Coal & Coke Co.....	1	Sparta.....	148,000	144,000	.....	.....	4,000
71	Chicago-Herrin Coal Co.....	1	Herrin.....	147,571	143,980	.....	2,180	1,431
72	Greenview Coal Mining Co.....	1	Greenview.....	145,772	180,285	.....	4,467	11,020
73	Virden Coal Co.....	1	Virden.....	141,642	126,436	6,986	5,366	3,255

74	Davenport Coal Co.....	1	Lemont.....	136,071	117,106	20,001	624	1,600
75	Montgomery County Coal Co.....	1	Palmy.....	136,863	131,365	.....	3,482	1,846
76	Star Coal Co.....	3	.....	136,836	131,106	.....	2,605	2,925
	.do.....	1	Vandercreek.....	9,500	9,500	.....	.....	.....
	.do.....	2	Kangley.....	127,336	121,606	.....	2,805	2,925
77	Jefferson Coal Co.....	1	Springfield.....	131,052	117,456	.....	10,889	2,707
78	Chicago & Big Muddy Coal & Coke Co.....	1	Marion.....	128,429	125,023	.....	170	3,236
79	Johnson City & Big Muddy Coal & Mining Co.....	1	Lake Creek.....	128,369	124,999	.....	400	3,000
80	Williamson County Coal Co.....	1	.do.....	128,331	124,931	.....	.....	3,400
81	Sangamon Coal Co.....	1	Springfield.....	126,005	118,506	.....	3,720	3,779
82	Glendale Coal Co.....	2	Belleville.....	122,650	106,650	.....	6,100	9,900
83	Clark Coal & Coke Co.....	1	Peoria.....	122,230	113,340	.....	.....	8,860
84	Wenona Coal Co.....	1	Wenona.....	121,105	105,705	.....	10,600	4,800
85	Auburn & Alton Coal Co.....	1	Auburn.....	121,080	111,531	.....	7,099	2,460
86	Cantrall Cooperative Coal Co.....	1	Cantrall.....	116,611	88,687	24,462	1,737	1,275
87	Walnut Hill Coal Co.....	1	Belleville.....	115,457	113,637	.....	200	1,800
88	Roanoke Coal & Mining Co.....	1	Roanoke.....	115,128	93,122	6,297	8,459	7,250
89	Newbent Coal Co.....	1	Pana.....	113,977	106,677	.....	.....	7,300
90	Lake Superior Coal Co.....	2	.....	113,124	106,711	.....	1,986	2,425
	.do.....	1	Belleville.....	36,734	35,634	.....	1,500	600
	.do.....	1	Duquoin.....	77,390	75,077	.....	488	1,825
91	Oglesby Coal Co.....	1	Oglesby.....	113,016	102,631	.....	4,341	6,044
92	New Ohio Washed Coal Co.....	1	Cartersville.....	112,736	106,000	.....	1,986	4,800
93	Gartside Coal Co.....	2	Murphysboro.....	112,012	94,419	.....	993	14,800
94	Pana Coal Co.....	1	Pana.....	110,513	99,913	28,830	8,805	12,960



## STATISTICS OF LABOR.

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
95	Horns Colliery Co.....	1	Duquoin.....	110,184	110,184	.....	.....	.....
96	Carlinville Coal Co.....	1	Carlinville.....	109,654	92,623	1,639	11,242	4,150
97	Wilmington & Superior Co.....	1	Springfield.....	109,253	92,563	.....	11,617	5,078
98	Superior Coal Mining Co.....	1	Belleville.....	109,199	107,099	.....	.....	2,100
99	Moweaqua Coal Mining Co.....	1	Moweaqua.....	109,192	71,654	20,724	10,592	6,222
100	Matheson & Hegeler Zinc Co.....	1	LaSalle.....	105,557	.....	938	5,252	99,347
101	Litchfield Mining & Power Co.....	1	Litchfield.....	105,114	77,871	2,200	22,643	2,400
102	Mrs. E. Hakes.....	1	Rutland.....	104,814	69,329	26,863	4,972	3,650
103	Norris Coal Mining Co.....	1	Norris.....	104,761	91,161	11,400	1,000	1,200
104	Economy Coal Mining Co.....	1	Danville.....	103,088	77,600	23,280	.....	2,188
105	Shell Bros.....	1	Peoria.....	103,049	102,500	.....	549	.....
106	Cartersville District Coal Co.....	1	Marion.....	101,497	96,978	.....	.....	4,510
107	Athens Mining Co.....	1	Athens.....	101,301	95,650	.....	2,724	2,927
108	Williamsville Coal Co.....	1	Selbytown.....	100,295	87,895	.....	8,220	4,210
109	Assumption Coal Mining Co.....	1	Assumption.....	96,534	76,483	.....	10,888	9,163
110	Moffat Coal Co.....	1	Sparta.....	96,309	94,995	.....	804	510
111	Joseph Taylor Coal Co.....	1	O'Fallon.....	95,602	88,282	.....	3,640	3,680
112	Barclay Coal Mining Co.....	1	Barclay.....	94,899	83,808	.....	6,378	4,213

1113	Claverleaf Coal Mining Co.....	1	Conewau.....	92, 476	88, 294	2, 882	1, 800
1114	Borders Coal Co.....	1	Marissa.....	86, 050	81, 865	3, 350	835
1115	Joseph Taylor.....	2	O'Fallon.....	85, 993	78, 688	255	5, 190
1116	Applegate & Lewis.....	1	Cuba.....	85, 000	64, 900	15, 000	3 000
1117	Walschlag Coöperative Coal Co.....	1	Peoria.....	82, 376	82, 376	.....	.....
1118	George Hippard.....	2	Belleville.....	81, 161	68, 495	7, 565	4, 247
1119	Trutter Coal Co.....	1	Pleasant Plains.....	81, 000	59, 000	20, 000	2, 000
1120	Valley Coal Mining Co.....	1	East St. Louis.....	80, 000	78, 150	50	1, 800
1121	Decatur Coal Co.....	2	.....	79, 374	52, 391	26, 983	.....
.....	do.....	1	Niantic.....	39, 929	32, 391	7, 538	.....
.....	do.....	1	Decatur.....	39, 445	20, 000	19, 445	.....
1122	Cardiff Coal Co.....	1	Cardiff.....	79, 174	71, 543	4, 283	3, 348
1123	Daniel Zildorph.....	1	Marion.....	78, 329	76, 787	292	1, 250
1124	Illinois Fuel Co.....	2	Sparta.....	77, 424	71, 216	3, 748	2, 460
1125	Donally-Koeneck Coal Co.....	1	Carterville.....	74, 048	70, 828	300	2, 920
1126	Oak Hill Coal Co.....	1	Belleville.....	73, 959	70, 690	811	2, 518
1127	Clifton Coal Co.....	1	Ledford.....	72, 647	70, 647	.....	2, 000
1128	Central Coal Mining Co.....	1	St. David.....	72, 120	70, 910	.....	1, 210
1129	Estate of James Cahill.....	1	Peru.....	72, 000	30, 000	22, 000	2, 000
1130	Germanatown Coal Co.....	1	Germanatown.....	71, 988	62, 438	4, 200	5, 350
1131	Eureka Coal Co.....	1	Marissa.....	71, 285	67, 532	1, 733	2, 000
1132	Lincoln Coal Co.....	1	Lincoln.....	71, 174	58, 274	1, 800	4, 100
1133	Summit Coal Co.....	1	Belleville.....	68, 900	68, 070	7, 000	700
1134	Illinois Zinc Co.....	1	Peru.....	68, 652	67, 620	288	744
1135	Henrietta Coal Co.....	1	Edwardsville.....	68, 484	59, 182	7, 085	2, 217

## STATISTICS OF LABOR.

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators	NAME OF OPERATOR	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
136	East Cuba Coal Co. ....	1	Cuba .....	67,421	63,196	.....	.....	4,225
137	Terre Coal Mining Co. ....	1	Lenzburg .....	67,362	65,397	.....	665	1,800
138	Gas Coal Co. ....	1	Harrisburg .....	67,000	65,800	.....	400	800
139	Belleville & O'Fallon Coal Co. ....	1	Belleville .....	66,992	54,196	.....	7,627	5,169
140	Robt. Dick Coal Co. ....	1	Cartersville .....	61,821	60,571	.....	250	1,000
141	Lebanon Coal Mining Assn. ....	1	Lebanon .....	60,793	48,747	.....	6,012	6,034
142	Gallatin Coal & Coke Co. ....	1	Equality .....	60,178	41,687	3,635	9,707	5,149
143	Howarth & Taylor .....	1	Edwards .....	60,125	58,121	.....	.....	2,004
144	O'Fallon Coal & Mining Co. ....	1	O'Fallon .....	57,979	53,485	.....	1,851	2,643
145	Kewanee Coal Mining Co. ....	1	Kewanee .....	56,290	45,000	.....	9,490	1,800
146	John O'Connell Coal Co. ....	1	Danville .....	54,893	52,845	.....	1,482	566
147	Colileo Cooperative Coal Co' .....	1	Bartonville .....	54,380	53,390	.....	.....	1,000
148	Gardner-Wilmington Coal Co. ....	1	Clark City .....	53,405	13,068	31,659	1,825	4,853
149	Soper & Co. ....	1	Cutler .....	53,293	46,653	4,200	1,200	1,800
150	Johnson Coal Co. ....	1	Marissa .....	52,652	51,215	.....	.....	1,437
151	Crystal Coal Co. ....	1	Tilden .....	52,172	52,172	.....	.....	.....
152	Electric Coal Co. ....	1	Danville .....	51,384	49,384	.....	.....	2,000
153	Little Muddy Coal Co. ....	1	Tamarac .....	51,300	50,432	.....	868	.....

## COAL IN ILLINOIS.

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145	Chicago & Carbonate Coal Co.....	1	Elk Ridge.....	51,004	45,174	4,000
146	Royal Colliery Coal Co.....	1	Virden.....	48,870	47,980	1,240
147	W. E. Foley.....	2		49,370	47,270	2,100
148	Joseph Guest & Sons.....	1	Canton.....	31,880	29,870	1,520
149	Wm. Ratican.....	1	Mapleton.....	17,980	17,400	580
150	Tilden Coal Co.....	1	Belleville.....	48,758	48,855	153
151	Boyle Coal & Coke Co.....	1	Caseyville.....	46,700	42,000	100
152	Phoenix Coal Co.....	1	Tilden.....	46,143	44,016	591
153	Colfax Coal Co.....	1	Sparta.....	45,000	35,000	7,500
154	South Mountain Coal Co.....	1	Peoria.....	43,232	42,632	600
155	Tallula Coal Co.....	1	Colfax.....	42,866	30,099	6,859
156	DeCamp Coal Mining Co.....	1	Petersburg.....	40,343	30,586	3,255
157	Vickery Bros.....	1	Tallula.....	39,268	34,083	3,725
158	Highland Coal Co.....	1	Slaunton.....	38,850	36,700	200
159	Canton Union Coal Co.....	1	Peoria.....	38,040	35,000	2,440
160	Scripps Coal Co.....	1	Belleville.....	36,452	20,461	7,689
161	Central Coal & Coke Co.....	1	Canton.....	35,324	30,000	4,524
162	Enterprise Mining Co.....	1	Astoria.....	34,680	33,870	810
163	Chicago & Coulterville Coal Co.....	1	Elmwood.....	34,606	30,486	2,920
164	Farmington Coal Co.....	1	Rentchler.....	33,600	33,000	600
165	Murphy-Keenan & Co.....	1	Coulterville.....	32,892	30,862	500
166	Perry County Coal Co.....	1	Farmington.....	32,480	26,850	1,500
167		1	Braidwood.....	30,262	23,688	5,630
168		1	Duquoin.....	30,234	29,707	1,065
169		1				200
170		1				327
171		1				
172		1				
173		1				
174		1				
175		1				
176		1				

## STATISTICS OF LABOR.

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mine.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
177	Humboldt Coal Co.....	1	Belleville.....	30,000	24,000	.....	4,000	2,000
178	Skillet Coal Co.....	1	do.....	30,000	28,000	.....	.....	2,000
179	Sunlight Coal Co.....	1	Freeburg.....	29,925	26,372	.....	2,803	750
180	Wyoming Coal Co.....	1	Wyoming.....	29,658	27,000	.....	2,000	658
181	Coulterville Mining Co.....	1	Coulterville.....	29,300	26,126	.....	2,524	650
182	Petersburg Coal Mining Co.....	1	Petersburg.....	29,135	27,330	.....	1,238	547
183	Lenz Coal & Mining Co.....	2	Belleville.....	28,603	26,918	.....	.....	1,685
184	Carterville & Big Muddy Coal Co.....	1	Lauder.....	27,831	27,431	.....	.....	400
185	Inter-State Coal Mining Co.....	1	Worden.....	27,353	25,574	.....	126	1,653
186	Superior Coal Co.....	2	Gillespie.....	25,962	25,904	.....	.....	58
187	Chas. Hartman.....	1	Belleville.....	25,895	18,700	.....	7,085	100
188	Tazewell County Coal Co.....	1	Pekin.....	25,300	17,600	.....	7,000	700
189	A. Rentz Bros.....	1	Kramm.....	25,220	23,600	.....	1,630	.....
190	Joliet-Wilmington Coal Co.....	1	Braidwood.....	25,000	21,800	.....	2,400	800
191	A. E. Powell.....	1	Coulterville.....	24,733	23,063	.....	.....	1,640
192	Beggs-Lewis & Co.....	1	Fairbury.....	24,200	11,570	9,490	1,980	1,480
193	Sliv's Mining Co.....	1	Carbon Cliff.....	23,998	22,761	.....	300	875
194	Etherly Coal Co.....	1	Etherley.....	23,080	22,164	876	40	.....

## COAL IN ILLINOIS.

1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020	2030	2040	2050	2060	2070	2080	2090	2100	2110	2120	2130	2140	2150	2160	2170	2180	2190		
ATLAS COAL CO.																															
196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219								
Mauck Bros.....	Eaton Fuel Co.....	Erie Star Coal Co.....	C. B. Kramm.....	Yates City Coal Co.....	Consumers Coal Co.....	Hugh Murray.....	Rippetoe & Rundle.....	Western Coal and Mining Co.....	C. J. White.....	Essex & Fritz Coal Co.....	Lake Erie Coal Mining Co.....	Little Coal Co.....	Spoon River Coal Co.....	Pittsburg Mining Co.....	Fred Murphy.....	Jas. Walker.....	Ensley Coal Co.....	Millstadt Coal Co.....	Chicago & Marlon Coal Co.....	Third Vein Coal Co.....	Peter Grant & Son.....	Jos Blair Big Muddy Coal Co.....	Atlas Coal Co.....								
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
Danville.....	Sunfield.....	Peoria.....	Peoria.....	Yates City.....	Chenosa.....	Nashville.....	Colchester.....	Bush.....	Grape Creek.....	Galesburg.....	Peoria.....	Peoria.....	Galesburg.....	Belleville.....	Belleville.....	Mapleton.....	Petersburg.....	Millstadt.....	Marlon.....	Orchard Mines.....	Peoria.....	Murphysboro.....	Galva.....								
22,883	21,975	21,618	20,200	20,000	20,000	19,930	19,727	18,821	18,513	18,500	18,200	18,140	16,980	16,680	16,000	15,957	15,280	15,000	14,286	13,920	13,630	12,980	11,989								
11,200	21,000	14,740	19,600	16,000	4,500	3,514	19,502	18,649	18,383	18,500	7,641	17,680	16,320	13,400	14,000	15,957	12,000	12,000	12,979	11,811	13,380	12,000	10,079								
10,838	900	5,717		3,000	14,000	3,438		172	100				9,909		3,000	2,000			3,280	2,000	1,259	600	1,510								

## STATISTICS OF LABOR.

TABLE 18—Shipping or Commercial Collieries—Distribution of Output, 1904—Continued.

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mine.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
220	Bunting Bros.....	1	Grape Creek.....	11,887	6,011	.....	5,886	.....
221	Home Coal Co.....	1	Mt. Pulaski.....	11,851	1,541	.....	8,636	1,674
222	Strait Coal Co.....	1	Pinckneyville.....	11,415	7,970	.....	2,845	600
223	Middleton Coal Co.....	1	Middleton.....	11,317	8,606	.....	1,456	1,255
224	Chicago Superior Coal Co.....	1	Springfield.....	11,067	10,637	.....	.....	450
225	Oakwood Coal Co.....	1	Oakwood.....	11,000	9,000	.....	2,000	.....
226	Wm. Francis.....	1	Streator.....	11,000	160	.....	10,840	.....
227	Cartersville Mining Co.....	1	Herrin.....	10,884	9,801	.....	40	943
228	Kinmundy Coal Co.....	1	Kinmundy.....	10,745	7,064	.....	1,864	1,767
229	German Coal Co.....	1	Peoria.....	10,700	10,470	.....	.....	230
230	W. H. Wilson.....	1	Duquoin.....	10,000	1,300	.....	8,700	.....
231	Century Coal Co.....	1	Tower Hill.....	10,000	3,000	.....	5,000	2,000
232	Dutch Hill Coal Co.....	1	New Athens.....	10,000	6,500	.....	3,000	500
233	E. S. Gray.....	1	Oakwood.....	10,000	10,000	.....	.....	.....
234	Peabody Mining Co.....	1	Sherman.....	9,500	9,100	.....	.....	400
235	Morris Coal Co.....	1	Carriers Mills.....	9,410	9,000	.....	.....	410
236	Monarch Coal Mining Co.....	1	Farmington.....	9,233	6,918	.....	499	1,816
237	J. Riley.....	1	Breeds.....	8,985	8,720	245	.....	.....

229	FULLERTON COAL CO.	1	.....	.....	.....	.....	.....	.....	.....
240	G. & J. Meredith.....	1	Augusta.....	8,320	8,320	.....	.....	.....	.....
241	North Wilmington Coal Co.....	1	Seneca.....	8,190	5,345	.....	.....	2,164	681
242	Davis Coal & Iron Co.....	1	Duquoin.....	8,000	6,000	.....	.....	500	1,500
243	Howe Coal Co.....	1	Streator.....	7,962	1,885	.....	.....	5,867	200
244	Rixon Coal Co.....	1	Braidwood.....	7,834	7,834	.....	.....	.....	.....
245	Eldorado Coal Co.....	1	Eldorado.....	6,443	4,425	.....	.....	2,018	.....
246	Alfred Lilliman.....	1	Cable.....	6,320	4,800	.....	.....	1,170	350
247	F. W. Davis.....	1	Muncie.....	6,000	2,000	.....	.....	3,700	300
248	Schmidtgal Coal Co.....	1	Murphysboro.....	5,953	46	.....	.....	5,563	314
249	Carterville & Herrin Coal Co.....	1	Herrin.....	5,930	5,900	.....	.....	50	.....
250	Cussack & Edwards.....	1	Edwards.....	5,640	5,450	.....	.....	.....	190
251	Colfax Cooperative Co.....	1	Colfax.....	5,174	3,183	.....	1,161	620	210
252	Salem Coal Co.....	1	Salem.....	4,854	570	.....	.....	2,939	1,345
253	Arthur Jones.....	1	Boden.....	4,800	700	.....	.....	3,900	200
254	Beatty Coal Co.....	1	Mascoutah.....	4,704	4,497	.....	.....	.....	207
255	Zeigler Coal Co.....	1	Zeigler.....	4,240	2,845	.....	.....	20	1,325
256	Burney & Co.....	1	Colchester.....	4,127	4,127	.....	.....	.....	.....
257	B. B. Peterson.....	1	Cable.....	4,000	3,480	.....	.....	320	200
258	M. Hampton.....	1	Carterville.....	3,935	926	.....	.....	3,006	.....
259	Miller Coal Co.....	1	Raymond.....	3,550	625	.....	.....	2,840	85
260	Manhattan Coal Co.....	1	Cornell.....	3,282	2,782	.....	.....	400	100
261	Benjamin Davis.....	1	Streator.....	3,195	1,250	.....	.....	1,945	.....
262	Grady Coal Co.....	1	Pontiac.....	2,919	799	.....	.....	2,000	120



TABLE 18—*Shipping or Commercial Collieries—Distribution of Output, 1904—Concluded.*

No. of operators.	NAME OF OPERATOR.	No. of mines.	Postoffice address, location of mines.	Total output, all grades.	DISPOSITION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment.	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
263	Volunteer Coal Co.....	1	Coal Valley.....	2,532	1,796	.....	546	200
264	Briar Bluff Coal Co.....	1	Briar Bluff.....	2,480	2,453	.....	22	.....
265	St. Louis-Carterville Coal Co.....	1	Herrin.....	2,357	1,257	.....	985	115
266	Moore & Mahlstrom.....	1	Coal Valley.....	2,270	680	.....	1,384	206
*267	Edinburg Coal Co.....	1	Edinburg.....	1,886	.....	.....	1,365	521
268	Geo. W. Fenewick.....	1	Danville.....	1,700	300	.....	1,350	50
269	A. Anderson & Sons.....	1	Streator.....	1,423	383	.....	1,030	.....
270	Blue & Hall.....	1	Grape Creek.....	1,140	1,040	.....	100	.....
271	East Side Coal Co.....	1	Equality.....	1,063	800	200	.....	63
272	Young & Ellis.....	1	Danville.....	557	40	.....	517	.....
273	Watson Coal Co.....	1	Carterville.....	200	141	.....	49	10
	Total.....	390	.....	35,778,517	31,778,260	1,187,331	1,360,132	1,453,794

\*No report of tons shipped.

## GRADED OUTPUT FOR THE YEAR.

The achievement of the mines of the State, in the production of the different grades of merchantable coal, is presented in the following table:

TABLE 19—*Output of the Shipping and Local Mines of the State with Tons of the Different Grades of Coal by Districts—1904.*

DISTRICT.	Total output— Tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or Screen- ings.	Slack or waste.
First.....	3,322,268	353,402	1,902,003	243,003	101,709	673,503	48,648
Second.....	3,036,056	248,200	2,151,084	11,664	26,004	491,643	107,461
Third.....	2,707,067	699,264	1,298,998	108,702	173,827	287,897	133,379
Fourth.....	4,901,660	3,181,689	1,003,882	77,213	145,441	356,775	136,660
Fifth.....	7,177,268	1,683,152	3,503,554	113,434	218,602	1,464,814	193,712
Sixth.....	8,530,028	2,298,155	4,370,758	59,868	251,024	1,284,346	265,877
Seventh.....	7,105,170	1,805,423	1,866,724	394,788	659,615	1,091,661	286,959
Shipping mines.....	35,779,517	10,269,285	16,097,003	1,008,672	1,581,222	5,650,639	1,172,696
Local mines.....	1,298,380	358,619	791,007	6,028	21,161	100,931	20,634
Total.....	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330

The increase in tonnage of the shipping mines over last year is 6.25 per cent; the increase of the local mines is 1.53 per cent.

In some of the districts the decrease in the tonnage of slack, or waste coal, compared with last year is quite marked; for the State the decrease of this grade is 16.08 per cent from last year.

The following table presents the percentages of the different grades of coal produced from the mines of the State:

TABLE 20—*Percentages of the Total Output of the Different Grades of Coal, Shipping and Local Mines, by Districts.*

DISTRICT.	Per cent of total output.	PERCENTAGES OF THE DIFFERENT GRADES OF COAL					
		Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.	Slack or waste.
First.....	9.31	10.64	57.25	7.32	3.06	20.27	1.46
Second.....	8.51	8.18	70.85	0.38	0.86	16.19	3.54
Third.....	7.58	25.83	47.99	4.01	6.61	10.63	4.93
Fourth .....	13.73	64.91	20.48	1.57	2.97	7.28	2.79
Fifth .....	20.11	23.45	48.81	1.58	3.05	20.41	2.70
Sixth .....	23.87	26.94	51.24	0.70	2.94	15.06	3.12
Seventh .....	16.89	29.72	30.62	6.41	10.87	17.72	4.76
Shipping mines .....	100.00	28.71	45.03	2.80	4.42	15.76	3.28
Local mines .....	100.00	27.62	60.92	0.47	1.63	7.77	1.59

The output of the shipping mines in the sixth district is nearly one-fourth of the total of the State; this district, in conjunction with the fifth and seventh, supplied 61 per cent of the total output. For the State the percentages of the different grades vary but little from those of last year.

The local mines show a decrease in tons of mine-run grades, of 9.6 per cent, and an increase of lump of 5.82 per cent compared with last year. This is the fifth year that the graded tonnage of the State has been published in these reports. A comparative table for these years is presented:

TABLE 21—*Total Output of the Different Grades of Coal, All Mines, for Five Years, with Percentages.*

YEAR.	Total output—tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or screenings	Slack or Waste.
1900.....	25,153,929	5,554,627	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,667,591	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	680,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,098	15,874,509	995,163	1,775,704	4,540,431	1,416,495
1904.....	37,077,897	10,627,904	16,888,010	1,014,700	1,602,333	5,751,570	1,193,390
Percentages..							
1900.....		22.08	55.37	1.97	5.26	11.13	4.14
1901.....		25.84	50.01	1.83	4.57	13.77	3.98
1902.....		23.27	50.10	2.27	5.28	15.34	3.74
1903.....		29.70	45.41	2.84	5.02	12.96	4.05
1904.....		28.66	45.55	2.74	4.32	15.51	3.23

It will be noticed that there is very little change in the gradation of the output for the past two years. However, the percentages of mine-run and lump grades is substantially maintained.

The output of the mines of the State with the gain or loss in tonnage is presented by districts in the following table:

TABLE 22—*Output for the Years 1902, 1903 and 1904, Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			Gain (+) or loss (—) 1903 over 1902.	Gain (+) or loss (—) 1904 over 1903.	PERCENTAGES OF GAIN (+) OR LOSS (—)	
	1902.	1903.	1904.			1903 over 1902.	1904 over 1903.
First.....	3,729,724	3,748,651	3,450,315	+ 18,927	— 298,336	+ .51	— 7.93
Second .....	3,104,516	3,245,781	3,321,490	+ 141,265	+ 76,709	+ 4.55	+ 2.36
Third.....	2,413,463	2,708,850	3,058,414	+ 294,887	+ 350,064	+ 12.22	+ 12.92
Fourth.....	3,939,864	4,772,284	5,142,786	+ 832,420	+ 370,502	+ 21.13	+ 7.76
Fifth.....	6,213,386	7,070,903	7,280,287	+ 857,517	+ 209,384	+ 13.80	+ 2.96
Sixth .....	6,241,847	7,734,831	8,634,726	+ 1,492,984	+ 899,895	+ 23.92	+ 11.63
Seventh .....	4,378,500	5,674,600	6,100,879	+ 1,296,100	+ 514,279	+ 29.60	+ 9.06
The State...	30,021,300	34,955,400	37,077,897	+ 4,934,100	+ 2,122,497	+ 16.43	+ 6.07

The first district shows a decrease of eight per cent in the output for this year compared with that of last year. All the other districts show an increase. The third and sixth districts present the largest increase in production.

### MINES, MEN AND TONS.

The record of the number of mines, men and tons, also the percentages of the lump and other grades of coal for 15 years has been maintained in these reports, and is here presented for a series of 23 years:

TABLE 23—*Output of the State for 23 Years and the Mines and Men Producing the Same.*

YEAR.	NUMBER OF—				TONS OF—		PERCENTAGE OF—	
	Coun- ties.	Mines.	Men.	Tons.	Lump.	Other grades.	Lump.	Other grades.
1882.....	43	704	20,290	11,017,069	9,115,653	1,901,506	.....	.....
1883.....	47	639	28,039	12,123,456	10,030,991	2,092,465	.....	.....
1884.....	49	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885.....	50	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886.....	50	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887.....	49	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888.....	50	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889.....	49	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890.....	57	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891.....	57	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892.....	55	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893.....	56	788	35,390	19,949,564	16,112,899	3,836,665	80.77	19.23
1894.....	56	836	38,477	17,113,576	13,865,234	3,248,292	81.02	18.98
1895.....	54	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896.....	51	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897.....	50	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898.....	52	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899.....	52	889	36,991	23,434,445	17,427,598	6,006,847	74.37	25.63
1900.....	52	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901.....	53	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902.....	54	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903.....	53	933	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59
1904.....	54	932	54,774	37,077,897	16,888,010	20,189,887	45.55	54.45

Here is a comprehensive account of the extent of the coal industry of the State for 23 years. The increase during these years in the number of mines has been 32 per cent, of employes 170 per cent, and of tons of coal produced 237 per cent.

The percentages of the gain or loss by years, in the number of employes, and the number of tons of coal produced for 23 years is presented in the following table:

TABLE 24—*Total Number of Men and Total Tons Produced with Percentages of Gain or Loss for Twenty-three Years*

YEAR.	Men.	Total Output, Tons.	PERCENTAGE OF MEN.		PERCENTAGE OF TONS.	
			Gain.	Loss.	Gain.	Loss.
1882.....	20,290	11,017,089	.....	.....	.....	.....
1883.....	23,939	12,123,456	17.98	.....	10.04	.....
1884.....	25,575	12,208,075	6.83	.....	.70	.....
1885.....	25,946	11,834,459	1.35	.....	.....	3.06
1886.....	25,846	11,175,241	.....	.39	.....	5.57
1887.....	26,804	12,423,066	3.71	.....	11.17	.....
1888.....	29,410	14,328,181	9.72	.....	15.34	.....
1889.....	30,076	14,017,298	2.26	.....	.....	2.17
1890.....	28,574	15,274,727	.....	4.99	8.97	.....
1891.....	32,951	15,660,698	15.32	.....	3.53	.....
1892.....	33,632	17,862,276	2.07	.....	14.06	.....
1893.....	35,390	19,949,564	5.23	.....	11.69	.....
1894.....	38,447	17,113,576	8.72	.....	.....	14.22
1895.....	38,630	17,735,864	.40	.....	3.64	.....
1896.....	37,057	19,786,626	.....	4.07	11.56	.....
1897.....	33,788	20,072,758	.....	8.82	1.45	.....
1898.....	35,026	18,599,299	3.66	.....	.....	7.34
1899.....	36,991	23,434,445	5.61	.....	26.00	.....
1900.....	39,384	25,153,929	6.47	.....	7.34	.....
1901.....	44,143	26,635,319	12.08	.....	5.89	.....
1902.....	46,005	30,021,300	4.22	.....	12.71	.....
1903.....	49,814	34,955,400	8.28	.....	16.44	.....
1904.....	54,774	37,077,897	9.96	.....	6.07	.....

The number of persons employed, in and about the mines of the State, has had an uninterrupted increase for the past seven years, while in the output of coal there has been an increase in tonnage each year for six years.

During the 23 years shown in the table only four years show a decrease in the number of employes and a decrease in tonnage five years.

The percentages of the tons of coal produced in each district is shown in the following table:

TABLE 25—*Percentage of the Tonage of Total Output of the State, Produced by Each District, for a Series of 14 Years.*

YEAR.	DISTRICTS.						
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
1891.....	19.69	9.20	17.84	28.27	25.00	.....	.....
1892.....	19.36	9.70	18.26	28.65	24.03	.....	.....
1893.....	17.02	10.03	17.03	28.99	26.93	.....	.....
1894.....	15.69	9.95	17.99	30.23	26.14	.....	.....
1895.....	15.42	11.25	16.65	31.65	25.03	.....	.....
1896.....	15.34	13.60	3.18	14.17	23.70	19.08	10.93
1897.....	14.64	13.64	2.87	14.53	24.95	17.73	11.64
1898.....	11.88	13.71	3.89	13.83	21.10	18.60	16.99
1899.....	15.08	14.19	3.11	14.33	20.53	18.28	14.48
1900.....	14.72	9.75	7.94	14.06	19.15	20.81	13.58
1901.....	13.40	10.40	7.45	12.22	20.33	21.76	14.44
1902.....	12.42	10.34	8.04	13.12	20.70	20.79	14.59
1903.....	10.73	9.29	7.75	13.65	20.22	22.13	16.23
1904.....	9.31	8.96	8.25	13.87	19.63	23.29	16.69

For the past nine years the fifth, sixth and seventh districts have contributed from 53 to 60 per cent of the coal produced in the State. The past year these districts reached the highest percentage.

## HAULAGE IN THE MINES.

The haulage of coal in the mines of the State has been noted in these reports for the last five years. The following table presents the record for this year by districts, also for the State for the previous four years:

TABLE 26—*Haulage of Coal in the Shipping Mines of the State, by Districts, 1904.*

DISTRICT.	ELECTRICITY		CABLE.		MULE OR HORSE.		HAND.		VARIOUS.	
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.
First.....					32	2,736,711	4	15,489	5	*570,068
Second.....	2	586,381	4	453,715	14	1,925,733	8	70,227		
Third.....					42	1,879,471	1	8,320	12	†819,266
Fourth.....					32	2,560,546	3	3,397	11	‡2,337,717
Fifth.....	7	1,748,716	4	691,388	40	4,577,116	1	3,550	1	§156,498
Sixth.....					76	6,107,892			8	*2,422,136
Seventh.....	5	996,323	1	60,178	66	5,042,226	1	6,443		
The State..	14	3,331,420	9	1,205,281	302	24,829,705	18	107,426	37	6,305,685
1903.....	14	3,308,285	21	2,537,895	297	25,411,371	10	60,823	11	2,358,163
1902.....	10	2,258,298	15	2,626,182	288	22,036,531	7	30,329	12	1,873,415
1901.....	12	2,062,377	21	2,740,616	545	21,068,518	340	743,808		
1900.....	7	1,331,579	27	2,424,978	512	20,410,169	374	987,570		

†Cable and horse.

‡Cable and electric.

\*Cable, electric, horse and mule.

§677,495 tons hauled by electricity.

†Cable, electric, horse, mule and dogs.

For the two years in this table—1900 and 1901—the record is given for all the mines in the State; for the other three years for shipping mines only.

Electrical power is reported as being applied for the hauling of coal in the mines this year only in the second, fifth and seventh districts. Last year both the third and fourth reported this system, one mine in the third and two in the fourth.

The number of mines using this power exclusively is the same this year as last; however, the same force is used in all the districts more or less, but the mines using and the tons hauled are not designated separately. Table 26 is supplemented by a table of percentages of shipping mines and tons hauled by the different methods for three years.



TABLE 27—*Percentages of the Shipping Mines and Tons Showing Haulage for the years 1902, 1903 and 1904.*

YEAR.	PERCENTAGES OF MINES USING AND TONS HAULED BY—									
	ELECTRICITY		CABLE.		MULE OR HORSE.		HAND.		VARIOUS.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.
1902.....	3.02	7.83	4.52	9.11	86.75	76.45	2.10	.11	3.61	6.50
1903.....	3.97	9.82	5.92	7.54	84.13	75.46	2.83	.18	3.12	7.00
1904.....	3.68	9.31	2.37	3.37	79.47	76.40	4.74	.30	9.74	17.62
Increase (+)	0.00	+.69	-57.14	-52.21	+1.68	-2.29	+80.00	+76.62	+236.36	+167.40
Decrease (-)										

Comparing this year with the last, electrical haulage in mines, and tons hauled, shows but little change; by cable the decrease in both mines and tons is quite considerable; by mule or horse there is also a decrease while in mines using various methods there is shown to be a marked increase.

The final line in this table gives the increase or decrease in the different methods for the past two years.

#### OUTPUT BY COUNTIES.

The number of counties in the State supplying over 500,000 tons of coal during the year are shown in the following table:

TABLE 28—*Relative Rank of the Counties of the State Producing 500,000 Tons of Coal or over for a Series of Five Years.*

COUNTY.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.	Rank.	Tonnage 1900.
Sangamon.....	1	4,516,358	1	4,386,526	1	3,672,989	1	2,919,223	1	2,519,911
St. Clair.....	2	3,418,479	2	3,134,679	2	2,578,553	2	2,518,847	2	2,253,883
Vermilion.....	3	3,114,060	3	2,893,233	3	2,558,371	4	2,003,790	3	2,030,964
Williamson.....	4	3,038,466	4	2,551,587	6	1,956,271	7	1,595,061	6	1,441,660
Madison.....	5	3,030,892	5	2,711,767	5	2,013,692	6	1,605,980	9	1,133,607
Macoupin.....	6	2,221,474	6	2,223,055	4	2,075,253	3	2,115,319	5	1,848,794
Bureau.....	7	1,832,577	8	1,778,302	8	1,732,813	8	1,549,056	7	1,338,221
La Salle.....	8	1,773,189	7	1,877,555	7	1,894,510	5	1,833,561	4	2,021,841
Grundy.....	9	1,405,158	9	1,457,935	9	1,383,336	9	1,298,092	8	1,229,386
Fulton.....	10	1,284,279	10	1,036,496	10	889,679	14	646,400	14	655,433
Perry.....	11	1,240,174	11	1,031,751	14	789,625	13	664,278	13	630,651
Marion.....	12	1,083,734	12	1,002,047	11	881,821	11	829,326	11	840,871
Christian.....	13	986,685	14	926,563	15	725,088	16	576,482	15	632,871

Table 28—Concluded.

COUNTIES.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.	Rank.	Tonnage 1900.
Peoria .....	14	939,737	15	920,716	13	824,270	12	710,582	12	727,737
Clinton .....	15	925,515	16	870,518	16	724,462	15	644,664	16	535,601
Jackson.....	16	862,641	13	972,284	12	853,056	10	911,245	10	883,311
Randolph .....	17	620,280	..	.....	..	.....	..	.....	..	.....
Mercer.....	18	601,508	17	648,070	17	602,722	17	563,603	17	501,065
Menard.....	19	543,763	..	.....	..	.....	..	.....	..	.....
Total—Counties and tons.....	19	33,438,959	17	30,423,084	17	25,156,511	17	22,982,499	17	21,382,041

This year two additional counties, Randolph and Menard, appear in the list, making 19 counties producing over half a million tons of coal. The output of these counties for the year represent over 90 per cent of the total tonnage of the State. Sangamon county again, and for five years, has held first place, with an output this year of over 4,500,000 tons; St. Clair, for the same period, has held second place. Five counties show an output of over 3,000,000 tons.

The 54 coal producing counties of the State are presented in the following table:

TABLE 29—Coal Producing Counties of the State, Giving Number of Districts, Mines, Men and Tons, of Shipping and Local Mines—1904.

COUNTY.	District.	ALL MINES.			SHIPPING MINES			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Bond .....	6	1	249	176,116	1	249	176,116	.....	.....	.....
Brown .....	5	5	10	1,583	.....	.....	.....	5	10	1,583
Bureau.....	2	23	4,437	1,832,577	7	4,329	1,800,730	16	106	31,847
Calhoun .....	5	1	13	3,110	.....	.....	.....	1	13	3,110
Cass.....	3	2	10	2,780	.....	.....	.....	2	10	2,780
Christian.....	4	8	1,476	986,685	8	1,476	986,685	.....	.....	.....
Clinton .....	6	6	1,041	925,515	6	1,041	925,555	.....	.....	.....
Edgar .....	4	1	13	6,022	.....	.....	.....	1	13	6,022
Franklin .....	7	1	.....	4,240	1	.....	4,240	.....	.....	.....
Hulton .....	3	54	1,978	1,284,279	20	1,752	1,222,483	34	226	61,796
Hallatin.....	7	6	116	68,411	2	105	61,241	4	11	7,170
Greene .....	5	7	35	10,904	.....	.....	.....	7	35	10,904
Hendry .....	1	25	3,538	1,405,158	14	3,461	1,376,852	11	77	28,306

Table 29—Continued.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Hamilton.....	7	1	3	2,000	.....	.....	.....	1	3	2,000
Hancock.....	3	6	40	12,270	1	14	8,320	5	26	3,950
Henry.....	2	29	364	151,887	3	142	70,759	28	223	81,128
Jackson.....	7	18	1,246	862,641	9	1,213	845,716	9	33	16,925
Jefferson.....	7	3	55	29,967	.....	.....	.....	3	55	29,967
Jersey.....	5	7	22	3,405	.....	.....	.....	7	22	3,405
Johnson.....	7	3	14	3,050	.....	.....	.....	3	14	3,050
Kankakee.....	1	1	194	53,405	1	194	53,405	.....	.....	.....
Knox.....	2	46	296	89,992	2	86	43,080	44	210	46,912
LaSalle.....	1	41	3,684	1,773,189	17	3,514	1,714,722	24	170	53,467
Livingston.....	1	17	341	150,467	6	237	114,193	11	84	36,274
Logan.....	4	4	640	419,004	4	640	419,004	.....	.....	.....
Macon.....	4	4	286	151,334	3	181	106,198	1	105	45,136
Macoupin.....	5	26	3,031	2,221,474	17	2,986	2,207,902	9	45	13,572
Madison.....	6	35	3,412	3,030,892	16	3,277	2,986,967	19	135	43,925
Marion.....	6	6	1,282	1,063,734	6	1,282	1,063,734	.....	.....	.....
Marshall.....	2	12	958	476,239	3	935	470,203	9	23	6,036
McDonough.....	3	64	249	60,574	2	67	23,854	62	182	36,720
McLean.....	4	4	417	218,140	4	417	218,140	.....	.....	.....
Menard.....	3	15	746	543,763	8	704	526,099	7	42	17,064
Mercer.....	2	16	942	601,508	8	892	584,230	8	50	17,276
Montgomery.....	5	5	605	494,501	5	605	494,501	.....	.....	.....
Morgan.....	5	2	14	4,300	.....	.....	.....	2	14	4,300
Peoria.....	3	69	1,371	939,737	19	1,084	799,821	50	287	139,916
Perry.....	7	20	1,874	1,240,174	19	1,872	1,240,024	1	2	150
Randolph.....	7	13	844	620,280	11	836	612,071	2	8	8,209
Rock Island.....	2	14	159	91,793	3	57	28,738	11	102	63,055
Saline.....	7	17	378	299,720	5	321	294,571	12	57	5,149
Sangamon.....	5	34	5,730	4,516,358	31	5,670	4,474,865	3	60	41,493
Schuyler.....	3	15	68	18,400	.....	.....	.....	15	68	18,400
Scott.....	5	15	81	24,652	.....	.....	.....	15	81	24,652
Shelby.....	4	11	297	132,413	2	211	119,192	9	86	13,221
Stark.....	2	16	137	61,040	2	67	38,316	14	70	22,724
St. Clair.....	6	69	3,681	3,418,469	55	3,584	3,357,696	14	97	60,773
Tazewell.....	3	13	346	196,611	5	228	126,490	8	118	70,121

Table 29—Concluded.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Vermilion .....	4	63	3,929	3,114,060	24	3,627	2,987,313	39	302	176,747
Warren .....	2	15	68	17,454	.....	.....	.....	15	68	17,454
Washington ....	7	1	33	19,930	1	33	19,930	.....	.....	.....
Will .....	1	4	281	68,096	3	272	63,096	1	9	5,000
Williamson .....	7	37	3,504	3,038,466	25	3,468	3,027,377	12	36	11,089
Woodford .....	4	1	235	115,128	1	235	115,128	.....	.....	.....
54 counties .....	.....	932	54,774	37,077,897	372	51,125	35,779,517	552	3,390	1,298,380

This table brings into view the relative importance of the coal producing counties of the State, giving the number of mines, men and tons in each county; also the same information concerning the shipping and local mines.

Sangamon county gave employment to 5,730 men, Bureau to 4,437, while Vermilion, LaSalle, St Clair, Grundy, Williamson, Madison and Macoupin each gave employment to over 3,000 men.

These nine counties gave employment to 34,946 men, or 64 per cent of all employes in and around the mines of the State.

Respecting the coal produced, these nine counties show an aggregate of 24,350,643 tons, or 66 per cent of the tonnage of the State.

#### DISPOSITION OF THE OUTPUT.

The distribution of the coal tonnage of the State for the year is shown in the following table, by districts:

TABLE 30—Disposition of the Output of Shipping Mines by Districts. Also Local Mines.

DISTRICT.	Total output of all grades—Tons.	Tons shipped from mines.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons used and wasted at the mines
First .....	3,322,268	2,731,845	170,746	178,025	241,652
Second .....	3,036,066	2,768,018	52,361	92,730	122,947
Third .....	2,707,067	2,518,158	29,920	73,518	85,471
Fourth .....	4,901,660	4,204,553	202,776	300,883	193,448
Fifth .....	7,177,268	6,389,700	185,141	338,686	263,741
Sixth .....	8,530,028	7,678,710	307,284	206,507	337,527
Seventh .....	6,105,170	5,487,276	239,103	169,783	209,008
Shipping mines .....	35,779,517	31,778,260	1,187,331	1,360,132	1,453,794
Local mines .....	1,298,380	.....	35,768	1,161,480	101,132
The State .....	37,077,897	31,778,260	1,223,099	2,521,612	1,554,926

For the purpose of comparison, the following table furnishes a more favorable exhibition:

**TABLE 31—Percentages of the Output of Shipping and Local Mines, also Percentages of the Distribution, by Districts, 1904.**

DISTRICT.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons to locomotives	Tons sold to local trade.	Tons consumed or wasted at the mines.
First .....	9.31	82.23	5.14	5.36	7.27
Second .....	8.51	91.17	1.73	3.05	4.05
Third .....	7.58	93.02	1.10	2.72	3.16
Fourth .....	13.73	85.78	4.14	6.14	3.94
Fifth .....	20.11	89.03	2.58	4.72	3.67
Sixth .....	23.87	90.02	3.60	2.42	3.96
Seventh .....	16.89	89.88	3.92	2.78	3.42
Shipping mines .....	100.00	88.82	3.32	3.80	4.05
Local mines .....	100.00	.....	2.75	89.46	7.79

Directing attention to the tons shipped from the mines in the several districts, compared with last year, it is found that there was a slight falling off in all the districts, excepting the fifth and sixth, and these show a very small increase. A comparison of the percentages of the disposal of the output of the State for five years is presented in the following table:

**TABLE 32—Total Output of the Shipping Mines of the State, also Percentages of the Distribution for Five Years.**

SHIPPING MINES.

YEAR.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons supplied to locomotives	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900 .....	24,056,996	87.33	3.42	5.12	4.13
1901 .....	25,526,816	88.34	3.46	4.12	4.06
1902 .....	28,824,750	89.07	3.30	3.74	3.89
1903 .....	33,676,537	89.33	3.27	3.59	3.81
1904 .....	35,779,517	88.82	3.32	3.80	4.06

Table 32—Concluded.

## LOCAL MINES.

1900 .....	1,093,933	.....	5.66	85.57	8.77
1901 .....	1,108,503	.....	5.84	86.62	7.54
1902 .....	1,196,550	.....	1.54	89.05	9.41
1903 .....	1,278,863	.....	1.29	86.86	11.85
1904 .....	1,296,390	.....	2.75	89.46	7.79

Observing the shipping mines it will be seen that, for the past three years, 89 per cent of the coal produced by this class of mines has been loaded on cars at the mines for shipment, while the other 11 per cent has been quite uniformly divided to locomotives at the mines, sold to local trade or consumed or wasted at the mines. For the local mines there is shown an increase in tons supplied to locomotives and furnished to local trade, with a decrease from last year in tons wasted at the mines.

## DISPOSITION BY DISTRICTS AND COUNTIES.

The following table presents the efficiency of each coal producing county, arranged by districts, and the manner of the disposal of the output. The second, third and sixth districts show the largest percentages shipped from the mines. As to the local mines the largest output is shown in the second, third and fourth districts; these mines in the fifth and seventh districts are the only ones reported as supplying coal to locomotives.

TABLE 33—Disposition of the Output of Shipping Mines by Counties and Districts.

## FIRST DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Grundy.....	14	1,376,852	1,297,907	.....	25,748	53,197
Kankakee.....	1	53,405	15,068	31,659	1,825	4,853
LaSalle .....	17	1,714,722	1,227,211	129,597	131,235	176,679
Livingston.....	6	114,193	88,337	9,490	11,338	5,028
Will.....	3	63,096	53,322	.....	7,879	1,895
The district .....	41	3,322,268	2,731,845	170,746	178,025	241,652
Percentages .....	.....	100.00	82.23	5.14	5.36	7.27
Local mines.....	47	128,047	.....	.....	85,595	42,452

Table 33—Continued.

## SECOND DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Bureau.....	7	1,800,730	1,669,526	19,634	39,162	72,406
Henry.....	3	70,759	57,537	.....	11,022	2,200
Knox.....	2	43,080	38,164	876	3,040	1,000
Marshall.....	3	470,203	396,068	30,713	18,904	24,513
Mercer.....	8	584,230	549,196	1,133	13,306	20,595
Rock Island.....	3	28,738	25,227	.....	2,230	1,281
Stark.....	2	38,316	32,300	.....	5,066	950
The district.....	28	3,036,056	2,768,018	52,361	92,730	122,947
Percentages.....	.....	100.00	91.17	1.73	3.05	4.05
Local mines.....	143	286,434	.....	.....	279,878	6,556

## THIRD DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Fulton.....	20	1,222,483	1,148,091	26,665	11,420	36,307
Hancock.....	1	8,320	8,320	.....	.....	.....
McDonough.....	2	23,854	23,629	.....	.....	225
Menard.....	8	526,099	474,409	3,255	24,674	23,761
Peoria.....	19	699,821	763,406	.....	14,198	22,217
Tazewell.....	5	126,496	100,303	.....	23,226	2,981
The district.....	55	2,707,067	2,518,158	29,920	73,518	85,471
Percentages.....	.....	100.00	93.02	1.10	2.72	3.16
Local mines.....	183	351,347	.....	.....	349,460	1,887

Table 33—Continued.

## FOURTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Christian.....	8	986,685	786,758	80,087	60,408	59,487
Logan .....	4	419,004	328,247	23,416	40,275	27,066
Macon .....	3	106,198	52,915	.....	50,783	2,500
McLean .....	4	218,140	67,782	43,020	78,689	28,649
Shelby .....	2	119,192	74,654	20,724	15,592	8,222
Vermilion .....	24	2,937,313	2,801,075	29,282	46,682	60,274
Woodford .....	1	115,128	93,122	6,297	8,459	7,250
The district .....	46	4,901,660	4,204,553	202,776	300,883	193,448
Percentages .....	.....	100.00	85.78	4.14	6.14	3.94
Local mines .....	50	241,126	.....	.....	210,728	30,398

## FIFTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Macoupin.....	17	2,207,902	1,986,907	73,516	59,003	88,476
Montgomery .....	5	494,501	440,453	2,200	41,462	10,386
Sangamon .....	31	4,474,865	3,962,340	109,425	238,221	164,879
The district .....	53	7,177,268	6,389,700	185,141	338,686	263,741
Percentages .....	.....	100.00	89.03	2.58	4.72	3.67
Local mines .....	49	103,019	.....	12,396	84,868	57,55



Table 33—Concluded.

## SIXTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bond.....	1	176,116	166,387	.....	2,836	6,888
Clinton .....	6	925,515	812,754	36,000	28,394	48,367
Madison .....	16	2,986,987	2,805,105	38,899	42,721	100,242
Marion .....	6	1,083,734	817,046	172,114	46,507	48,067
St. Clair.....	55	3,337,698	3,077,418	60,271	86,049	133,948
The district.....	84	8,530,028	7,678,710	307,284	206,507	337,327
Percentages.....	.....	100.00	90.02	3.60	2.42	3.96
Local mines.....	33	104,698	.....	.....	99,830	4,868

## SEVENTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Franklin.....	1	4,240	2,845	50	20	1,335
Gallatin .....	2	61,241	42,487	3,835	9,707	5,213
Jackson .....	9	845,716	721,406	69,912	9,731	44,667
Perry.....	17	1,240,024	1,051,838	134,191	25,866	28,129
Randolph .....	11	612,071	577,103	3,748	14,119	17,068
Saline.....	5	294,571	266,978	20,091	3,042	4,499
Washington .....	1	19,930	3,514	3,438	9,519	3,439
Williamson.....	25	3,027,377	2,821,100	3,838	97,779	104,409
The district.....	73	6,105,170	5,487,276	239,103	169,783	209,008
Percentages .....	.....	100.00	89.88	3.92	2.78	3.42
Local mines.....	47	83,709	.....	23,372	51,121	9,216

The foregoing is supplemented by a table of the railroads of the State, with the tonnage that each county contributed to each road for shipment from the mines, and the tons supplied to locomotives from the mine chutes; also, the percentage contributed to each.

TABLE 34—*Railroads which Have Hauled the Coal Output of Shipping Mines of the State and the Tonnage Contributed to Each Road, by Counties—1904.*

RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
		Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
Illinois Central—20 counties.....	95	7,529,575	467,901	100.00	100.00
Williamson .....	12	1,838,835	2,551	24.30	0.55
St. Clair.....	20	990,270	12,766	12.48	2.73
Marion.....	5	807,631	172,114	10.84	36.10
Perry.....	15	789,480	40,247	10.49	8.60
Sangamon.....	7	615,529	.....	8.26	.....
Jackson.....	5	625,187	69,912	7.74	14.94
Madison.....	3	543,188	4,349	7.29	.93
Christian.....	5	404,960	9,217	5.43	1.97
La Salle.....	4	343,076	75,738	4.60	16.19
Macoupin.....	1	184,860	28,797	2.48	6.16
Randolph.....	4	139,442	.....	1.87	.....
Marshall.....	1	98,732	.....	1.32	.....
Logan.....	4	87,453	23,416	1.17	5.00
Shelby.....	1	71,654	20,724	.96	4.43
McLean.....	3	34,782	8,020	.47	1.71
Kankakee.....	1	10,183	.....	.14	.....
Franklin.....	1	2,845	50	.04	.01
Livingston.....	1	799	.....	.01	.....
Macon.....	1	524	.....	.007	.....
Saline.....	1	145	.....	.003	.....
Chicago & Eastern Illinois—3 counties....	23	3,334,908	2,661	100.00	100.00
Vermilion.....	14	2,413,439	1,002	72.37	37.65
Williamson.....	8	921,469	1,287	27.63	48.37
Jefferson.....	1	.....	372	.....	13.98
Chicago & Alton—9 counties.....	39	2,604,826	1,639	100.00	100.00
Sangamon.....	14	1,445,133	.....	55.48	.....
Macoupin.....	7	652,572	1,639	25.05	100.00
Logan.....	2	240,794	.....	9.24	.....
Menard.....	3	172,974	.....	6.64	.....
Will.....	3	53,322	.....	2.05	.....
Grundy.....	4	17,740	.....	.68	.....
LaSalle.....	3	10,818	.....	.42	.....
Marshall.....	1	6,973	.....	.27	.....
McLean.....	2	4,500	.....	.17	.....
Chicago, Burl. & Quincy—14 counties....	41	2,399,057	35,646	100.00	100.00
Fulton.....	8	700,107	11,400	29.19	31.98
LaSalle.....	8	465,969	.....	19.42	.....
Macoupin.....	4	338,182	6,986	14.10	19.60
Mercer.....	4	331,277	841	13.81	2.36
Bureau.....	1	198,758	1,823	8.28	5.11
Peoria.....	6	172,257	.....	7.18	.....
Bond.....	1	60,000	.....	2.50	.....
Henry.....	3	52,258	.....	2.18	.....
Stark.....	2	32,300	.....	1.36	.....
McDonough.....	2	23,629	.....	.98	.....
Knox.....	1	16,000	.....	.66	.....
Hancock.....	1	8,320	.....	.34	.....
Scott.....	1	.....	12,396	.....	34.78
Montgomery.....	1	.....	2,200	.....	6.17

Table 34—Continued.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE	
			Shipment.	Locomotives.	Shipped.	Sup to loc tiv
5	Wabash—10 counties.....	30	2,380,999	96,638	100.00	
	Sangamon.....	9	1,009,321	28,618	42.39	
	Macoupin.....	5	680,705	26,030	28.59	
	Christian.....	2	275,825	41,990	11.58	
	Vermilion.....	2	218,912	.....	9.19	.....
	Montgomery.....	2	78,496	.....	3.30	.....
	Madison.....	2	62,274	.....	2.62	.....
	Macon.....	1	32,391	.....	1.36	.....
	LaSalle.....	4	13,731	.....	.58	.....
	Livingston.....	2	8,075	.....	.34	.....
	Kankakee.....	1	1,179	.....	.05	.....
6	Elgin, Joliet & Eastern—1 county.....	14	1,263,370	.....	100.00	.....
	Grundy.....	14	1,263,370	.....	100.00	.....
7	Baltimore & Ohio S. W.—6 counties.....	19	1,256,746	48,582	100.00	
	Clinton.....	4	592,378	36,000	46.13	
	Sangamon.....	4	302,453	11,052	24.07	
	St. Clair.....	5	301,487	.....	23.99	.....
	Christian.....	3	50,913	1,530	4.05	.....
	Marion.....	2	9,415	.....	.75	.....
	Shelby.....	1	100	.....	.01	.....
8	Chicago & Northwestern—1 county.....	6	1,219,520	17,534	100.00	
	Bureau.....	6	1,219,520	17,534	100.00	
9	Chicago, Peoria & St. Louis—4 counties.....	15	1,162,485	77,878	100.00	
	Madison.....	3	540,325	6,990	46.48	
	Menard.....	5	301,435	3,255	25.93	
	Sangamon.....	6	295,642	67,633	25.43	
	Macoupin.....	1	25,083	.....	2.16	.....
10	St. Louis, Troy & Eastern—1 county.....	3	1,123,039	2,553	100.00	
	Madison.....	3	1,123,039	2,553	100.00	
11	Cleveland, Cin., Chi. & St. L.—8 counties.....	21	858,191	85,735	100.00	
	Montgomery.....	2	273,663	.....	31.89	.....
	Saline.....	5	265,233	29,091	30.91	.....
	Vermilion.....	7	159,224	23,280	18.55	.....
	Macoupin.....	2	79,511	10,064	9.26	.....
	Christian.....	2	55,060	27,300	6.42	.....
	Tazewell.....	1	17,600	.....	3.06	.....
	McLean.....	1	5,000	5,000	.58	.....
	Shelby.....	1	2,900	.....	.34	.....
12	Louisville & Nashville—5 counties.....	18	778,523	61,056	100.00	1
	St. Clair.....	13	730,922	39,044	93.89	
	Gallatin.....	2	42,487	3,835	5.46	
	Washington.....	1	3,514	3,438	.45	
	Saline.....	1	1,600	.....	.20	
	Jefferson.....	1	.....	14,739	.....	
13	Chi. Rock Island & Pac.—6 counties.....	14	769,312	53,193	100.00	1
	LaSalle.....	5	305,915	52,901	39.64	
	Bureau.....	1	231,714	.....	30.12	.....
	Mercer.....	4	217,919	292	28.32	.....
	Marshall.....	1	7,019	.....	.91	.....
	Henry.....	1	5,279	.....	.69	.....
	Rock Island.....	2	2,466	.....	.32	.....

Table 34.—Continued.

ROADS AND COUNTIES.	Number miles.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
ailroad—3 counties.....	15	767,195	16,722	100.00	100.00
.....	12	546,819	8,461	71.28	50.60
.....	2	220,376	.....	28.72	.....
on.....	1	.....	8,261	.....	49.40
Ohio—4 counties.....	10	578,898	89,744	100.00	100.00
ph.....	4	262,990	.....	45.43	.....
.....	2	207,730	89,744	35.88	100.90
.....	3	96,173	.....	16.62	.....
.....	1	12,000	.....	2.07	.....
ine—1 county.....	5	536,279	25,007	100.00	100.00
1.....	5	536,279	25,007	100.00	100.00
al—2 counties.....	7	381,475	.....	100.00	.....
.....	3	208,366	.....	54.62	.....
.....	4	173,109	.....	45.38	.....
oria & Western—4 counties....	12	381,072	24,755	100.00	100.00
.....	5	196,688	15,265	51.61	61.66
.....	5	169,314	.....	44.43	.....
ton.....	1	11,570	9,490	3.04	38.34
1.....	1	3,500	.....	.92	.....
opeka & Santa Fé—5 counties	13	378,322	34,255	100.00	100.00
1.....	1	162,144	27,958	42.86	81.62
.....	4	104,616	.....	27.65	.....
ord.....	1	93,122	6,297	24.62	18.38
.....	5	16,797	.....	4.44	.....
ton.....	2	1,643	.....	.43	.....
& O'Fallon Electric—1 county	2	324,694	.....	100.00	.....
.....	2	324,694	.....	100.00	.....
ekin Union—2 counties.....	6	309,045	.....	100.00	.....
.....	4	248,726	.....	80.48	.....
ll.....	2	60,322	.....	19.52	.....
ilroad—1 county.....	1	235,825	2,122	100.00	100.00
on.....	1	235,825	2,122	100.00	100.00
Bellville Electric—1 county..	3	231,226	.....	100.00	.....
.....	3	231,226	.....	100.00	.....
Louis & Western—2 counties.	2	194,681	.....	100.00	.....
.....	1	106,387	.....	54.65	.....
omery.....	1	88,294	.....	45.35	.....
thern—1 county.....	6	174,676	3,748	100.00	100.00
ph.....	6	174,676	3,748	100.00	100.00
rquette & Northern—1 county	1	121,200	2,760	100.00	100.00
1.....	1	121,200	2,760	100.00	100.00
inois & Iowa—3 counties.....	5	102,514	31,659	100.00	100.00
ton.....	1	66,250	.....	64.62	.....
.....	3	32,558	.....	31.76	.....
.....	1	3,706	31,659	3.62	100.00

Table 34—Concluded.

Number.	RAILROADS AND COUNTIES.	Number mines	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
28	Cin., Hamilton & Dayton—2 counties ....	4	78,457	.....	100.00	.....
	Sangamon.....	3	58,457	.....	74.50	.....
	Macon .....	1	20,000	.....	25.50	.....
29	Wabash, Chester & Western—1 county...	2	54,628	4,200	100.00	100.00
	Perry .....	2	54,628	4,200	100.00	100.00
30	St. Louis, Iron Mt. & South'n—2 counties	3	48,617	.....	100.00	.....
	Williamson.....	2	48,571	.....	99.91	.....
	Jackson.....	1	46	.....	.09	.....
31	Fulton County Narrow Gauge—1 county	4	42,930	.....	100.00	.....
	Fulton .....	4	42,930	.....	100.00	.....
32	Lake Erie & Western—2 counties .....	3	42,581	30,000	100.00	100.00
	Tazewell .....	2	22,381	.....	52.81	.....
	McLean .....	1	20,000	30,000	47.19	100.00
33	Macoupin County Railroad—1 county ...	2	25,904	.....	100.00	.....
	Macoupin .....	2	25,904	.....	100.00	.....
34	Davenport, R. I. & Northw'n—1 county..	1	22,761	.....	100.00	.....
	Rock Island.....	1	22,761	.....	100.00	.....
35	Galesburg & Great Eastern—1 county ....	1	22,164	876	100.00	100.00
	Knox .....	1	22,164	876	100.00	100.00
36	Chicago, Milwaukee & St. Paul—1 county	1	19,534	277	100.00	100.00
	Bureau.....	1	19,534	277	100.00	100.00
37	Coal Belt Electric—1 county .....	4	12,225	.....	100.00	.....
	Williamson .....	4	12,225	.....	100.00	.....
38	Illinois Traction Co. Electric—1 county..	1	9,500	.....	100.00	.....
	Vermilion .....	1	9,500	.....	100.00	.....
39	Chicago, Lake Shore & Eastern—1 county	1	.....	5,000	.....	100.00
	Vermilion .....	1	.....	5,000	.....	100.00
40	LaSalle & Bureau Co. R. R.—1 county....	1	.....	958	.....	100.00
	LaSalle .....	1	.....	958	.....	100.00
	Total tons hauled and supplied to locomotives by 40 railroads.....		31,776,732	1,223,099	.....	.....
	Shipped by water Ill. and Mich. canal....		1,528	.....	.....	.....
	Total State .....		31,778,260	1,223,099	.....	.....

A better reading of the achievement of these 40 railroads in handling the coal tonnage of the mines of the State is presented in a condensed form in the table following.

The aggregate quantity of coal transported from the mines and taken by locomotives from the chutes of the mines was 33,001,359 tons, or 89 per cent of the total tonnage of the State, and is 92 per cent of the output of the shipping mines.

The Illinois Central railroad traverses 20 counties of the State, reaching 95 mines and taking on board of its cars 7,529,575 tons; these comprise 25 per cent of the mines shipping coal, 50 per cent of the counties supplying the product and 24 per cent of the total tons shipped.

TABLE 35—*Illinois Coal Delivered to Illinois Railroads at the Mines for Shipment and for use on Locomotives—1904.*

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
1	Illinois Central.....	20	95	7,529,575	467,901	7,997,476
2	Chicago & Eastern Illinois.....	3	23	3,334,908	2,661	3,337,569
3	Chicago & Alton.....	9	39	2,604,826	1,639	2,606,465
4	Chicago, Burlington & Quincy.....	14	41	2,399,057	35,646	2,434,703
5	Wabash.....	10	30	2,380,999	96,638	2,477,637
6	Elgin, Joliet & Eastern.....	1	4	1,263,370	.....	1,263,370
7	Baltimore & Ohio Southwestern.....	6	19	1,256,746	48,582	1,305,328
8	Chicago & Northwestern.....	1	6	1,219,520	17,534	1,237,054
9	Chicago, Peoria & St. Louis.....	4	15	1,162,485	77,878	1,240,363
10	St. Louis, Troy & Eastern.....	1	3	1,123,039	2,553	1,125,592
11	Cleveland, Cincinnati, Chicago & St. Louis....	8	21	858,191	85,735	943,926
12	Louisville & Nashville.....	5	18	778,523	61,056	839,579
13	Chicago, Rock Island & Pacific.....	6	14	769,312	53,193	822,505
14	Southern Railroad.....	3	15	767,195	16,722	783,917
15	Mobile & Ohio.....	4	10	578,893	89,744	668,637
16	Vandalia Line.....	1	5	536,279	25,007	561,286
17	Iowa Central.....	2	7	381,475	.....	381,475
18	Toledo, Peoria & Western.....	4	12	381,072	24,755	405,827
19	Atchison, Topeka & Santa Fe.....	5	13	378,322	34,255	412,577
20	East St. Louis & O'Fallon Electric.....	1	2	324,694	.....	324,694
21	Peoria & Pekin Union.....	2	6	309,048	.....	309,048
22	Pawnee Railroad.....	1	1	235,825	2,122	237,947
23	St. Louis & Belleville Electric.....	1	3	231,226	.....	231,226
24	Toledo, St. Louis & Western.....	2	2	194,681	.....	194,681
25	Illinois Southern.....	1	6	174,676	3,748	178,424

Table 35—Concluded.

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- motives.	
26	Toluca, Marquette & Northern.....	1	1	121,200	2,760	123,960
27	Indiana, Illinois & Iowa.....	3	5	102,514	31,659	134,173
28	Cincinnati, Hamilton & Dayton.....	2	4	78,437	.....	78,437
29	Wabash, Chester & Western.....	1	2	54,628	4,200	58,828
30	St. Louis, Iron Mountain & Southern.....	2	3	48,617	.....	48,617
31	Fulton County Narrow Gauge.....	1	4	42,930	.....	42,930
32	Lake Erie & Western.....	2	3	42,381	30,000	72,381
33	Macoupin County Railroad.....	1	2	25,904	.....	25,904
34	Davenport, Rock Island & Northwestern.....	1	1	22,761	.....	22,761
35	Galesburg & Great Eastern.....	1	1	22,164	876	23,040
36	Chicago, Milwaukee & St. Paul.....	1	1	19,534	277	19,811
37	Coal Belt Electric.....	1	4	12,225	.....	12,225
38	Illinois Traction Co., Electric.....	1	1	9,500	.....	9,500
39	Chicago Lake Shore & Eastern.....	1	1	.....	5,000	5,000
40	LaSalle & Bureau County Railroad.....	1	1	.....	958	958
Total, 40 railroads.....		.....	.....	31,776,732	1,223,099	32,999,831
By water, Illinois & Michigan Canal.....		.....	.....	1,528	.....	1,528
Total, State.....		.....	.....	31,778,260	1,223,099	33,001,359

The counties yielding the coal and the number of railroads intersecting each, taking up the product for transportation is presented in the following table:

TABLE 36—*Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each for Transportation.*

COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
Sangamon.....	7	44		3,962,340
Chicago & Alton.....	14		1,445,133	36.47
Wabash.....	9		1,009,321	25.47
Illinois Central.....	7		615,529	15.54
Baltimore & Ohio Southwestern.....	4		302,453	7.63
Chicago, Peoria & St. Louis.....	6		296,642	7.46
Pawnee Railroad.....	1		235,825	5.95
Cincinnati, Hamilton & Dayton.....	3		58,437	1.48
St. Clair.....	7	56		2,077,418
Illinois Central.....	20		930,270	30.23
Louisville & Nashville.....	13		730,922	23.75
Southern Railroad.....	12		546,819	17.77
East St. Louis & O'Fallon Electric.....	2		324,694	10.55
Baltimore & Ohio Southwestern.....	5		301,487	9.80
St. Louis & Belleville Electric.....	3		231,226	7.51
Mobile & Ohio.....	1		12,000	.39
Williamson.....	4	26		2,821,100
Illinois Central.....	12		1,638,835	65.18
Chicago & Eastern Illinois.....	8		921,469	32.67
St. Louis, Iron Mountain & Southern.....	2		48,571	1.72
Coal Belt Electric.....	4		12,225	.43
Madison.....	5	16		2,805,105
St. Louis, Troy & Eastern.....	3		1,123,039	40.04
Illinois Central.....	3		543,188	19.34
Chicago, Peoria & St. Louis.....	3		540,325	19.26
Vandalia Line.....	5		536,279	19.12
Wabash.....	2		62,274	2.22
Vermilion.....	4	25		2,801,075
Chicago & Eastern Illinois.....	14		2,413,439	86.16
Wabash.....	2		218,912	7.82
Cleveland, Cincinnati, Chicago & St. Louis.....	7		159,224	5.68
Illinois Traction Co. Electric.....	1		9,500	.34
Macoupin.....	7	22		1,986,907
Wabash.....	5		680,795	34.27
Chicago & Alton.....	7		652,572	32.85
Chicago, Burlington & Quincy.....	4		338,182	17.02
Illinois Central.....	1		184,860	9.30
Cleveland, Cincinnati, Chicago & St. Louis.....	2		79,511	4.00
Macoupin County Railroad.....	2		25,804	1.30
Chicago, Peoria & St. Louis.....	1		25,083	1.26
Bureau.....	4	9		1,669,526
Chicago & Northwestern.....	6		1,219,520	73.05
Chicago, Rock Island & Pacific.....	1		231,714	13.88
Chicago, Burlington & Quincy.....	1		198,758	11.90
Chicago, Milwaukee & St. Paul.....	1		19,534	1.17
Grundy.....	3	23		1,297,907
Elgin, Joliet & Eastern.....	14		1,263,370	97.34
Chicago & Alton.....	4		17,740	1.37
Atchison, Topeka & Santa Fe.....	5		16,797	1.29



Table 36—Continued.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
9	LaSalle .....	7	31		1,275,663
	Chicago, Burlington & Quincy .....	8		465,969	36.53
	Illinois Central .....	4		343,076	26.89
	Chicago, Rock Island & Pacific .....	5		304,915	23.90
	Atchison, Topeka & Santa Fé .....	4		104,616	8.20
	Indiana, Illinois & Iowa .....	3		32,558	2.55
	Wabash .....	4		13,731	1.08
	Chicago & Alton .....	3		10,818	.85
10	Fulton .....	4	20		1,148,091
	Chicago, Burlington & Quincy .....	8		700,107	60.98
	Iowa Central .....	3		208,366	18.15
	Toledo, Peoria & Western .....	5		196,688	17.12
	Fulton County Narrow Gauge .....	4		42,930	3.74
11	Perry .....	3	19		1,051,838
	Illinois Central .....	13		789,480	75.06
	Mobile & Ohio .....	2		207,730	19.75
	Wabash, Chester & Western .....	2		54,628	5.19
12	Marion .....	2	7		817,046
	Illinois Central .....	5		807,631	98.85
	Baltimore & Ohio Southwestern .....	2		9,415	1.15
13	Clinton .....	2	6		812,754
	Baltimore & Ohio Southwestern .....	4		592,378	72.89
	Southern Railroad .....	2		220,376	27.11
14	Christian .....	4	12		786,758
	Illinois Central .....	5		404,980	51.47
	Wabash .....	2		275,825	35.06
	Cleveland, Cincinnati, Chicago & St. Louis .....	2		55,060	7.00
	Baltimore & Ohio Southwestern .....	3		50,913	6.47
15	Peoria .....	4	19		763,406
	Peoria & Pekin Union .....	4		248,726	32.58
	Iowa Central .....	4		173,109	22.68
	Chicago, Burlington & Quincy .....	6		172,257	22.56
	Toledo, Peoria & Western .....	5		169,314	22.18
16	Jackson .....	3	9		721,406
	Illinois Central .....	5		625,187	86.66
	Mobile & Ohio .....	3		96,173	13.33
	St. Louis, Iron Mountain & Southern .....	1		46	.01
17	Randolph .....	3	14		577,108
	Mobile & Ohio .....	4		262,990	45.57
	Illinois Southern .....	6		174,676	30.29
	Illinois Central .....	4		139,442	24.16
18	Mercer .....	2	8		549,196
	Chicago, Burlington & Quincy .....	4		331,277	60.32
	Chicago, Rock Island & Pacific .....	4		217,919	39.68
19	Menard .....	2	8		474,409
	Chicago, Peoria & St. Louis .....	5		301,435	63.54
	Chicago & Alton .....	3		172,974	36.46

Table 36—Continued.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
20	Montgomery .....	3	5		440.453
	Cleveland, Cincinnati, Chicago & St. Louis .....		2	273,663	62.13
	Toledo, St. Louis & Western .....		1	88,294	20.05
	Wabash .....		2	78,496	17.82
21	Marshall .....	5	5		396.068
	Atchison, Topeka & Santa Fé .....		1	162,143	40.94
	Toluca, Marquette & Northern .....		1	121,200	30.60
	Illinois Central .....		1	98,732	24.98
	Chicago, Rock Island & Pacific .....		1	7,019	1.77
	Chicago & Alton .....		1	6,973	1.76
22	Logan .....	2	6		328.247
	Chicago & Alton .....		2	240,794	73.36
	Illinois Central .....		4	87,453	26.64
23	Saline .....	3	7		266.978
	Cleveland, Cincinnati, Chicago & St. Louis .....		5	265,233	99.35
	Louisville & Nashville .....		1	1,600	.60
	Illinois Central .....		1	,245	.05
24	Bond .....	2	2		166.387
	Toledo, St. Louis & Western .....		1	108,386	63.94
	Chicago, Burlington & Quincy .....		1	60,000	36.06
25	Tazewell .....	3	5		100.303
	Peoria & Pekin Union .....		2	60,322	60.14
	Lake Erie & Western .....		2	22,381	22.31
	Cleveland, Cincinnati, Chicago & St. Louis .....		1	17,600	17.55
26	Woodford .....	1	1		93.122
	Atchison, Topeka & Santa Fé .....		1	93,122	100.00
27	Livingston .....	5	7		88.337
	Indiana, Illinois & Iowa .....		1	66,250	75.00
	Toledo, Peoria & Western .....		1	11,570	13.10
	Wabash .....		2	8,075	9.14
	Atchison, Topeka & Santa Fé .....		2	1,643	1.86
	Illinois Central .....		1	,799	.90
28	Shelby .....	3	3		74.654
	Illinois Central .....		1	71,654	95.98
	Cleveland, Cincinnati, Chicago & St. Louis .....		1	2,900	3.89
	Baltimore & Ohio Southwestern .....		1	,100	.13
29	McLean .....	5	8		67.782
	Illinois Central .....		3	34,782	51.31
	Lake Erie & Western .....		1	20,000	29.51
	Cleveland, Cincinnati, Chicago & St. Louis .....		1	5,000	7.38
	Chicago & Alton .....		2	4,500	6.64
	Toledo, Peoria & Western .....		1	3,500	5.16
30	Henry .....	2	4		57.537
	Chicago, Burlington & Quincy .....		3	52,258	90.83
	Chicago, Rock Island & Pacific .....		1	5,279	9.17
31	Will .....	1	3		53.322
	Chicago & Alton .....		3	523,22	100.00

Table 36—Concluded.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of miles.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
32	Macon .....	3	3	.....	52.915
	Wabash .....		1	32,391	61.21
	Cincinnati, Hamilton & Dayton .....		1	20,000	37.80
	Illinois Central .....		1	,524	.99
33	Gallatin .....	1	2	.....	42.487
	Louisville & Nashville .....		2	42,487	100.00
34	Knox .....	2	2	.....	38.164
	Galesburg & Great Eastern .....		1	22,164	58.08
	Chicago, Burlington & Quincy .....		1	16,000	41.92
35	Stark .....	1	2	.....	32.300
	Chicago, Burlington & Quincy .....		2	32,300	100.00
36	Rock Island .....	2	3	.....	25.227
	Davenport, Rock Island & Northwestern .....		1	22,761	90.22
	Chicago, Rock Island & Pacific .....		2	2,466	9.78
37	McDonough .....	1	2	.....	23.629
	Chicago, Burlington & Quincy .....		2	23,629	100.00
38	Kankakee .....	3	3	.....	15.068
	Illinois Central .....		1	10,183	67.58
	Indiana, Illinois & Iowa .....		1	3,706	24.60
	Wabash .....		1	1,179	7.82
39	Hancock .....	1	1	.....	8.320
	Chicago, Burlington & Quincy .....		1	8,320	100.00
40	Washington .....	1	1	.....	3.514
	Louisville & Nashville .....		1	3,514	100.00
41	Franklin .....	1	1	.....	2.845
	Illinois Central .....		1	2,845	100.00
	Total tons handled .....			31,776,742	.....
	Shipped by water .....				1.338
	LaSalle—Illinois & Michigan Canal .....			1,528	.....
	Total tons shipped—State .....			31,778,260	.....

Sangamon county again shows the largest tonnage furnished for shipment; Vermilion county contributes the largest tonnage to any one railroad.

nal statement is presented, in condensed form, of the import-  
nd resourcefulness of the counties furnishing the coal for the  
t. This table is arranged according to the number of tons  
d from the mines:

37—*Recapitulation of Counties from which Coal is Shipped,  
nber of Mines, Total Tons Shipped, Supplied to Locomotives,  
l to Local Trade and Consumed or Wasted at the Mines.*

COUNTIES.	Number of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
amon.....	30	4,474,865	3,962,340	109,425	238,221	164,879
air .....	55	3,357,696	3,077,418	60,271	86,049	133,958
amson.....	25	3,027,377	2,821,100	3,838	97,779	104,460
on.....	16	2,966,967	2,805,105	38,899	42,721	100,242
ilion .....	24	2,937,313	2,801,075	29,282	46,682	60,274
upin.....	17	2,207,902	1,986,907	73,516	59,003	88,476
u .....	7	1,800,730	1,669,526	19,634	39,162	72,408
ly.....	14	1,376,852	1,297,907	.....	25,748	53,197
le.....	17	1,714,722	*1,277,211	129,597	131,235	176,679
n.....	20	1,222,483	1,148,091	26,665	11,420	36,307
.....	19	1,240,024	1,051,838	134,191	25,866	28,129
n .....	6	1,083,734	817,046	172,114	46,507	48,067
on.....	6	925,515	812,754	36,000	28,394	48,367
ian .....	8	986,685	786,758	80,037	60,403	59,487
a .....	19	799,821	763,408	.....	14,198	22,217
on.....	9	845,716	721,406	69,912	9,731	44,667
olph.....	11	612,071	577,108	3,748	14,119	17,096
er .....	8	584,230	549,196	1,133	13,306	20,595
rd.....	8	526,099	474,409	3,255	24,674	23,761
gomery .....	5	494,501	440,453	2,200	41,462	10,386
hall.....	3	470,203	396,068	30,718	18,904	24,513
a .....	4	419,004	328,247	23,416	40,275	27,066
.....	5	294,571	266,978	20,091	3,042	4,460
.....	1	176,116	166,387	.....	2,836	6,893
vell.....	5	126,490	100,303	.....	23,226	2,961
lford .....	1	115,128	93,122	6,297	8,459	7,250
gston.....	6	114,193	88,337	9,490	11,338	5,028
y .....	2	119,192	74,654	20,724	15,592	8,222
an.....	4	218,140	67,782	43,020	78,689	28,649
y.....	3	70,759	57,537	.....	11,922	2,380

3 tons shipped by Illinois and Michigan canal.

Table 37—Concluded.

Number.	COUNTIES.	Number of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
31	Will.....	3	63,096	53,322		7,879	1,85
32	Macon.....	3	106,198	52,915		50,783	2,30
33	Gallatin.....	2	61,241	42,487	3,835	9,707	5,22
34	Knox.....	2	43,080	38,164	876	3,040	1,00
35	Stark.....	2	38,316	32,300		5,066	90
36	Rock Island.....	3	28,738	25,227		2,230	1,21
37	McDonough.....	2	23,854	23,629			25
38	Kankakee.....	1	53,405	15,068	31,659	1,825	4,83
39	Hancock.....	1	8,320	8,320			
40	Washington.....	1	19,930	3,514	3,438	9,519	3,40
41	Franklin.....	1	4,240	2,845	50	20	1,35
	Totals.....	280	35,779,517	31,778,260	1,187,331	1,360,132	1,453,794

## DAYS OF ACTIVE OPERATION.

During the year the 380 shipping or commercial mines have been in active operation for 213.29 days, giving employment to 51,384 men during that time.

The following table shows the working time by districts:

TABLE 38—Days of Active Operation, by Districts.

DISTRICT.	MINES, MEN AND AVERAGE WORKING DAYS.								
	ALL MINES.			SHIPPING MINES.			LOCAL.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First.....	88	8,038	214.68	41	7,698	227.00	47	340	205.04
Second.....	171	7,362	187.63	28	6,508	231.39	143	854	178.24
Third.....	238	4,808	192.85	55	3,849	219.91	183	959	183.35
Fourth.....	96	7,293	197.42	46	6,787	213.95	50	506	180.55
Fifth.....	102	9,541	185.66	53	9,261	202.19	49	280	168.79
Sixth.....	117	9,665	207.09	84	9,433	207.52	33	232	204.94
Seventh.....	120	8,067	202.24	73	7,848	207.23	47	219	137.49
The State.....	932	54,774	197.86	380	51,384	213.29	552	3,390	184.68

The average working time for the shipping mines is 8.53 days less than last year.

following table presents the record of the working time of the big mines for 12 years, giving the number of mines and days in on by districts and for the State:

*39—Days of Active Operation of Shipping Mines for a Series of 12 Years.*

FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.		THE STATE.	
Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
38	220	26	228	80	215	56	251	101	233	....	.....	....	.....	301	229.6
35	151.5	26	171	81	182.9	63	194.7	90	186.9	....	.....	....	.....	295	183.1
26	159.4	28	176.1	66	173	64	185.5	94	192.6	....	.....	....	.....	278	182.2
38	166	46	198	27	157	40	210	50	197	72	196	49	164	322	186
35	166.9	46	183.2	19	158.6	36	207.7	50	202.1	73	194.8	51	165.5	310	185.5
39	144.5	48	171.1	21	187.5	19	190	51	172.3	72	170.6	59	186.8	329	174.7
37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
44	238	20	234	55	201	34	210	44	219	73	217	53	197	323	214
39	235.5	26	202	53	188	33	185.7	46	207	77	223.6	57	182.4	331	204.4
33	246.2	25	237.8	56	209	34	206.5	46	213.7	80	210.7	58	177.7	332	210.2
34	251.06	25	243.24	50	222.67	45	210.00	46	224.40	83	224.69	70	200.78	353	221.82
41	227.00	28	231.39	55	219.91	46	213.95	53	202.19	84	207.52	73	207.23	380	213.29

of the districts show a falling off, excepting the fourth and h; these districts, however, show but a slight increase.

AVERAGE VALUE OF COAL.

average value at the mines of the different grades of coal per computed from the values of each individual mine operator and to the several inspectors; these several averages are reached adding the aggregate amount of all sales of each grade by the number of tons of each grade sold.

same basis of computation is followed for each county and finally for the State.

returns of the shipping mines only are depended upon as being the most reliable values of the several grades of coal; the at the local mines being considered entirely separate from that shipping mines. The following table presents the results for year:

**TABLE 40—Total Tons and Average Value per ton of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1904.**

DISTRICT.	ALL GRADES.		MINE RUN COAL.		LUMP COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.
First .....	3,322,268	\$1.448	353,402	\$1.713	1,902,003	\$1.714
Second .....	3,086,056	1.455	248,200	1.50	2,151,064	1.661
Third .....	2,707,067	1.22	699,264	1.16	1,298,998	1.48
Fourth .....	4,901,660	1.07	3,181,689	1.02	1,008,882	1.477
Fifth .....	7,177,268	1.037	1,683,152	1.007	3,503,554	1.248
Sixth .....	8,530,028	0.897	2,298,155	0.886	4,370,758	1.104
Seventh .....	6,105,170	0.963	1,805,423	0.937	1,866,724	1.213
Shipping mines .....	35,779,517	\$1.083	10,299,285	\$1.019	16,097,003	\$1.399
Local mines .....	1,298,380	\$1.577	358,619	\$1.363	791,007	\$1.636

**TABLE 40—Total tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1904—Concluded.**

DISTRICT.	EGG COAL.		NUT COAL.		PEA COAL.		SLACK COAL.	
	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.
First .....	243,003	\$1.776	101,709	\$1.468	673,503	\$0.531	48,648	\$0.277
Second .....	11,664	1.73	26,004	1.346	491,643	0.689	107,461	0.765
Third .....	108,702	1.527	178,827	1.102	287,897	0.586	133,379	0.562
Fourth .....	77,213	1.401	145,441	1.113	356,775	0.605	136,680	0.223
Fifth .....	113,434	1.223	218,602	1.126	1,464,814	0.602	193,712	0.464
Sixth .....	59,868	1.133	251,024	0.763	1,284,346	0.394	265,877	0.136
Seventh .....	394,788	1.191	659,615	1.015	1,091,661	0.642	286,959	0.323
Shipping mines .....	1,008,672	\$1.388	1,581,222	\$1.914	5,650,639	\$0.56	1,172,696	\$0.331
Local mines .....	6,028	\$1.718	21,161	\$1.442	100,931	\$0.647	20,634	\$0.429

The value per ton found for all the different grades in the first and second districts are considerably higher than found for the other districts; the lowest values for all grades are shown in the sixth district.

The separation of the shipping and local mines and the showing of the distinctive results, in all the tables of these reports, has been observed this year and for the two preceding years.

For a better comparison of the tonnage and values of the different grades of coal at the shipping mines, a table is presented for three years:

**TABLE 41**—*Total Tons and Average Value of the Different Grades of Coal at the Shipping Mines for Three Years.*

GRADES OF COAL.	1902.		1903.		1904.	
	Tons.	Value per ton.	Tons.	Value per ton.	Tons.	Value per ton.
All grades.....	28,824,750	\$0.942	33,676,537	\$1.032	35,779,517	\$1.083
Mines run.....	6,752,680	0.90	9,897,087	0.982	10,209,285	1.019
Lump.....	14,198,500	1.173	15,169,856	1.275	16,097,003	1.388
Egg.....	677,079	1.022	992,378	1.269	1,008,672	1.388
Nut.....	1,562,659	0.764	1,741,393	0.946	1,581,222	1.044
Pea.....	4,542,777	0.471	4,478,386	0.527	5,650,639	0.56
Slack.....	1,091,055	0.228	1,397,437	0.307	1,172,696	0.331

It will be observed here that a general advance has obtained in the value of all the several grades of coal during the years shown in the table. Comparing the values this year with those of 1902, it is disclosed that for all grades the advance has been 14 cents, while for mine run the advance is 12 cents, for lump 21 cents, for egg 37 cents, for nut 28 cents, for pea 9 cents and for slack 10 cents.

The first four grades showing the greatest advance comprise 80 per cent of the product for each year; the grades lump and egg, for the State, show the same value, although there is considerable variation in the values as presented in the several districts. The grade of lump coal, the product of all the mines of the State, was for many years regarded as the standard for the value of the product, as returned by the operators to the several inspectors, and as published in the reports of this bureau. This data has been continued from year to year, but for the past three years only for the shipping mines. This tonnage, with the value per ton, is presented in the following table:



TABLE 42—*Average Value of Lump Coal Per Ton at the Mine for a Series of 23 Years, 1882-1904.*

YEAR.	Tons of lump coal produced.	Average value per ton.	YEAR.	Tons of lump coal produced.	Average value per ton.
1881.....	9, 115, 633	\$1.51	1894.....	13, 865, 284	\$1.09
1883.....	10, 030, 991	1.48	1895.....	14, 045, 962	0.932
1884.....	10, 101, 005	1.26	1896.....	13, 990, 924	0.899
1885.....	9, 791, 874	1.17	1897.....	14, 672, 241	0.852
1886.....	9, 246, 435	1.10	1898.....	14, 208, 795	0.918
1887.....	10, 278, 890	1.085	1899.....	16, 008, 109	0.9186
1888.....	11, 855, 188	1.123	1900.....	13, 927, 899	1.099
1889.....	11, 597, 963	1.078	1901.....	13, 321, 124	1.161
1890.....	12, 638, 364	1.019	1902.....	*14, 198, 500	1.173
1891.....	12, 900, 224	1.008	1903.....	*15, 169, 856	1.275
1892.....	14, 730, 963	1.029	1904.....	*16, 097, 003	1.368
1893.....	16, 112, 899	1.025	.....	.....	.....

\*Shipping mines.

It will be noted that lump coal has had a perceptible increase in value for the past eight years, though a very slight decrease is shown for 1902. This year, however, shows a decided increase. The value of the lump grade compared with that of ten years ago shows an increase of 46 cents per ton; during the same period the increase in tonnage in this grade has been 15 per cent.

The percentages of the different grades produced by the shipping mines is shown in the following table:

TABLE 43—*Percentages of the Different Grades of Coal of Shipping Mines for Three Years.*

YEAR.	PERCENTAGES OF—					
	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
1902.....	23.43	49.23	2.35	5.45	15.76	3.78
1903.....	29.39	45.05	2.95	5.17	13.29	4.15
1904.....	28.66	45.55	2.74	4.32	15.51	3.22

The only variation in these percentages worthy of comment is the increase in the grade of mine-run coal and a proportional decrease in that of lump.

## MINE EMPLOYEES.

The enumeration and classification of the mine employ  s for the year is shown in the following table, arranged by districts:

TABLE 44—*Classification of Employees in the Shipping Mines, by Districts, with the Employees in Local Mines.*

DISTRICT.	ALL EMPLOYEES.				Above ground.	Total.
	Miners.	Other employes.	Boys.	Total.		
First.....	5,565	1,288	220	7,073	625	7,698
Second.....	4,657	1,181	196	6,034	474	6,508
Third.....	2,698	696	85	3,479	370	3,849
Fourth.....	4,581	1,311	257	6,149	638	6,787
Fifth.....	6,139	1,926	271	8,336	925	9,261
Sixth.....	6,472	1,705	301	8,478	955	9,423
Seventh.....	5,182	1,489	201	6,638	976	7,648
The State.....	35,294	9,596	1,531	46,421	4,962	51,384
Local mines.....	2,693	216	31	2,940	450	3,390
Total.....	37,987	9,812	1,562	49,361	5,413	54,774

In the class designated as miners, all the employ  s engaged in the operating of machines are included, as these properly belong in this class, though all of them may not be miners proper, but belong in that class rather than with other employ  s.

The number of miners in the shipping mines has increased 3,002 or 9.3 per cent over last year. The same mines account for 94 per cent of the total number of employ  s in and around the mines of the State. The record of the number of miners and other employ  s engaged in bringing forth and delivering the coal product of the State for six years is shown in the following table:

TABLE 45—*Classification of Employees in all Mines for Six Years.*

YEAR.	ALL EMPLOYEES UNDERGROUND.				Above ground.	Aggregate
	Miners.	Other employes.	Boys.	Total.		
1899.....	26,449	5,455	1,295	33,199	3,792	36,991
1900.....	27,875	6,047	1,281	35,203	4,181	39,384
1901.....	30,829	7,595	1,328	39,750	4,393	44,143
1902.....	32,875	7,273	1,397	41,518	4,487	46,005
1903.....	34,904	8,523	1,276	44,793	5,111	49,814
1904.....	37,987	9,812	1,562	49,361	5,413	54,774

The increase in the total number of employ  s during the years shown in the table, is 17,783 or a trifle over 48 per cent; miners, 13,538, or 51 per cent; other employ  s, 4,357, or 80 per cent; boys, 267, or 21 per cent.

The number of employ  s underground has increased 16,162 or 49 per cent and the number above ground 1,621 or 43 per cent. The record of workmen in the mines of the State has been published in these reports from year to year and is presented in the following table:

TABLE 46—*Employes in Coal Mines of the State for a Series of Twenty-two Years, by Districts.*

YEAR.	DISTRICTS.							The State.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
1883 .....	7,566	3,211	4,070	4,417	4,675	.....	.....	23,939
1884 .....	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885 .....	7,463	3,391	5,213	4,959	4,429	.....	.....	25,446
1886 .....	7,613	3,599	4,870	5,197	4,567	.....	.....	25,846
1887 .....	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888 .....	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889 .....	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890 .....	8,258	4,099	5,171	5,685	5,361	.....	.....	28,574
1891 .....	9,128	5,089	6,458	5,881	6,395	.....	.....	32,951
1892 .....	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893 .....	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894 .....	10,280	6,713	7,112	7,760	6,621	.....	.....	38,477
1895 .....	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896 .....	9,380	7,108	2,134	4,467	5,758	4,374	3,816	37,032
1897 .....	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898 .....	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899 .....	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991
1900 .....	7,722	5,693	3,864	5,543	5,983	5,885	4,692	39,384
1901 .....	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143
1902 .....	8,035	6,583	4,268	5,679	7,564	7,929	5,947	46,005
1903 .....	7,717	6,860	4,363	6,771	8,393	8,354	7,356	49,814
1904 .....	8,038	7,362	4,808	7,293	9,541	9,665	8,067	54,774

This presentation covers a period of 22 years and shows the grouping by districts, thereby indicating the distribution of mine workmen throughout the coal fields of the State.

Previous to the year 1897 the custom was to take the highest number of employes at each mine at any time during the year. Since that time the average number has been taken. This average number is found by adding the total number on all pay rolls, divided by the number of pay rolls.

#### PRICES PAID FOR MINING.

The county tables to be found in the several inspectors reports give the prices paid for hand and machine mining at each individual mine. These form the basis on which the average price is found for each county, district and for the State. Reference here is made to shipping mines only and for hand mining.

For the year covered by this report two prices prevailed in the several districts, conforming to the agreements between the miners and operators; therefore the computations for this year have been based on three-fourths of the tons under the scale agreement for the year ended March 31, 1904, and one-fourth under the agreement for two years beginning April 1, 1904, now in force. Taking as an example the coal mined by hand in Macoupin county for the fiscal year. The price paid per ton in this county for the year ended March 31, 1904, was 55 cents; for the year beginning April 1, 1904, it is now 52 cents; computing the price on the tonnage as stated the average price for the year is found to be 54½ cents. The following table is the record for the year:

TABLE 47.—Average Prices Paid for Mining by Hand and with Machine, at Shipping and Local Mines, by Districts—1904.

DISTRICT.	MINING BY HAND.				MACHINE MINING.	
	SHIPPING MINES—GROSS WEIGHT		LOCAL MINES—SCREENED.		GROSS WEIGHT.	
	Tons.	Price per ton.	Tons.	Price per ton.	Tons.	Price per ton.
First.....	3,322,268	\$0.786	128,047	\$0.798	.....	.....
Second.....	3,036,056	0.776	286,434	0.946	.....	.....
Third.....	2,707,067	0.607	351,347	0.781	.....	.....
Fourth.....	4,750,340	0.561	241,126	0.637	151,320	\$0.444
Fifth.....	4,870,791	0.547	93,427	0.839	*2,306,477	0.473
Sixth.....	4,892,796	0.535	104,698	0.628	3,637,232	0.475
Seventh.....	5,069,364	0.495	83,709	0.52	1,035,806	0.421
The State.....	28,648,632	0.593	1,288,788	0.767	7,130,835	0.466

\*In this district 9,592 tons were mined by machines in a local mine at 50c per ton, making a total of 7,140,428 tons mined by machines.

The average price this year for the State is found to be 59.3 cents per ton, as against 57 cents last year and 56.4 for the year before.

The average price for mining paid in each district for the past three years is shown in the following table:

DISTRICT.	1902.	1903.	1904.
First.....	\$0.73	\$0.737	\$0.736
Second.....	0.72	0.723	0.776
Third.....	0.555	0.567	0.607
Fourth.....	0.52	0.529	0.561
Fifth.....	0.49	0.508	0.547
Sixth.....	0.482	0.4944	0.536
Seventh.....	0.461	0.504	0.498
The State.....	0.5535	0.57	0.598

All of the districts show an increase except the seventh, which shows a decrease of nine-tenths of a cent.

#### PAYMENT OF WAGES.

The following table gives a record of the payment of wages at all the mines of the State:

TABLE 48—*Frequency of the Payment of Wages at Shipping and Local Mines, by Districts—1904.*

DISTRICT.	PAYMENTS MADE.								
	WEEKLY.			SEMI-MONTHLY.			MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	1	93	105,557	40	7,605	3,216,711	.....	.....	.....
Second.....	4	83	45,386	23	6,395	2,978,681	1	30	11,000
Third.....	.....	.....	.....	55	3,849	2,707,067	.....	.....	.....
Fourth.....	2	29	20,557	44	6,758	4,881,103	.....	.....	.....
Fifth.....	.....	.....	.....	53	9,261	7,177,268	.....	.....	.....
Sixth.....	1	17	14,000	83	9,416	8,516,028	.....	.....	.....
Seventh.....	1	10	3,935	72	7,838	6,101,235	.....	.....	.....
Shipping mines.	9	232	189,435	370	51,122	35,578,093	1	30	11,000
Local mines....	310	1,536	500,864	239	1,819	782,507	3	35	12,000
The State.....	319	1,768	690,299	609	52,941	36,363,600	4	65	23,000

It is shown here that 370 of the 380 shipping mines, pay their employes semi-monthly; nine make payments weekly, and one monthly. The record of the payment of wages for the past twelve years is shown by percentages in the following table:

TABLE 49—Percentages of Mines, Men and Tons in Reference to Payment of Wages for a Series of Twelve Years.

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
93 .....	67	27.6	26.2	25	56	56.4	8	16.4	23.4
94 .....	43	11.7	9.7	46	66.6	67.2	11	21.7	23
95 .....	31	6.5	4.2	57	78.3	74.4	12	1.52	21.4
96 .....	49	7.8	5.3	87.5	74.6	12	12	17.6	21.2
97 .....	46.78	6.91	4.34	89.04	74.60	73.71	14.18	18.4	21.9
98 .....	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5.23
99 .....	24.75	4.67	3.04	71.54	93.02	95.75	3.71	2.31	2.21
00 .....	33	4.12	2.57	64.8	95.04	96.48	2.2	.48	.59
01 .....	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12
02 .....	47	4.55	1.84	52.13	95.12	98.06	.87	.33	.1
03 .....	27.76	2.63	1.10	71.70	97.14	98.78	.54	.23	.12
04 .....	34.22	3.23	1.86	65.35	96.65	98.07	.43	.12	.07

From the foregoing it will be seen that, for the past seven years, semi-monthly payments of wages have almost universally prevailed. This year the payment of wages every two weeks was made at 65 per cent of all the mines which embraced 97 per cent of the employes engaged in the industry and handling 98 per cent of the output.

#### EARNINGS OF MINERS.

This is the fourth year that a presentation has been made of the earnings of miners in the shipping mines, where mining coal is done exclusively by hand.

Following is the showing for this year by districts and for the State for four years:

TABLE 50—*Hand Mining. Earnings of Coal Miners in Shipping Mines, for Year Ended June 30, 1904—By Districts.*

DISTRICT.	No. of miners.	Average days worked.	Total tons mined.	Average rate per ton.	Gross earnings	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First .....	5,565	227.	3,322,268	\$0.7863	\$2,612,299	596.99	\$469.42	2.62	\$2.67
Second.....	4,657	231.4	2,036,056	0.7759	2,355,676	651.93	505.81	2.82	2.19
Third .....	2,698	219.9	2,707,067	0.6067	1,641,771	1003.36	608.51	4.56	2.77
Fourth .....	3,846	213.9	4,042,931	0.5905	2,266,063	1051.20	589.20	4.91	2.75
Fifth .....	4,484	202.2	4,848,111	0.5473	2,653,371	1081.20	591.74	5.35	2.90
Sixth.....	3,503	207.5	4,525,105	0.5332	2,421,836	1291.78	691.36	6.23	3.35
Seventh.....	3,964	207.2	4,609,963	0.4952	2,282,853	1162.96	575.90	5.61	2.73
The State.....	28,717	213.3	27,091,501	\$0.5989	\$16,233,869	943.39	\$565.30	4.42	2.65
1903.....	25,878	224.1	24,455,228	\$0.5099	\$14,043,280	944.63	\$542.67	4.22	\$2.42
1902.....	24,229	209.8	20,616,155	0.5645	11,638,120	850.88	480.34	4.06	2.29
1901.....	22,206	203.	18,227,130	0.569	\$10,372,670	821.	\$467.11	4.04	\$2.30

These computations are based on the number classed as miners only, the average number of days the mines were in operation, the number of tons produced, and the average rate per ton prevailing at these mines.

#### MACHINE MINING.

The undercutting of coal by machines for the year is shown in the following table:

51—*Machine Mining—Mines, Men, Machines, Tons; by Districts—1904.*

DISTRICT.	MINES IN WHICH MACHINES ARE USED.									
	EXCLUSIVELY.				IN PART.			TOTAL.		
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.	Tons.
.....	1	40	2	30,285	5	47	121,035	6	49	151,320
.....	15	1,453	146	1,990,361	1	10	325,708	16	156	2,316,069
.....	21	2,103	231	2,731,415	11	102	905,817	32	333	3,637,232
.....	3	95	21	151,123	10	64	884,683	13	85	1,035,806
ate .....	40	3,691	400	4,903,184	27	223	2,237,243	67	623	7,140,427
.....	33	4,378	292	4,398,052	35	230	3,253,725	68	522	7,646,777
.....	34	4,811	308	4,460,025	30	156	2,037,098	64	464	6,497,123
.....	29	3,499	280	3,761,270	34	184	2,015,369	63	464	5,776,639
.....	38	3,883	272	3,765,601	29	158	1,817,993	67	430	5,583,594

is the first year that mining by machines, to some extent, has been reported from the first, second and third districts. It will be seen that in mines where the undercutting is done exclusively by machines for the past five years the increase has been only 5.3 per cent, while the number of machines used has increased from 272 to 471 per cent, and the tons cut by machines 30.2 per cent. The total tons cut by machines is over 500,000 tons less than last year. A classification of the machines used in the State is presented in the following table, by districts, and for the past five years:

52—*Name and Number of Mining Machines in use, by Districts—1904.*

DISTRICT.	Harrison.	Ingersoll - Sergeant.	Sullivan.	Morgan - Gardner.	Yock.	Jeffrey.	Herzler & Henninger.	Goodman.	Link Belt.	Butler.	Totals.
.....	22	.....	19	5	.....	.....	.....	1	.....	2	49
.....	87	29	5	21	4	.....	.....	10	.....	.....	156
.....	73	98	86	1	23	19	22	7	4	.....	333
.....	28	15	21	.....	.....	10	.....	11	.....	.....	85
ate .....	210	142	131	27	27	29	22	29	4	2	623
.....	178	95	82	15	31	50	33	15	21	2	522
.....	160	133	36	22	28	32	20	29	3	2	465
.....	178	132	33	32	24	33	13	.....	19	.....	464
.....	197	119	40	19	5	30	1	.....	19	.....	430



The total number of machines in use the past year was 623, being an increase of 101 over last year. By districts, the increase has been 41 in the fourth; 19 in the fifth; 35 in the sixth; and 9 in the seventh. One machine was reported last year in the second district. Following is a list of the mines in which machines are used exclusively, with the number and kind of machines in use; also, the tonnage produced at each mine:

TABLE 53—*Mines in which Machines are Used Exclusively.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No	Name.	
1	Chi., Wilmi'ton & Verm'n C. Co.	Thayer .....	12	Morgan-Gardner .....	387,000
2	Staunton Coal & Mining Co.....	Staunton .....	8	Jeffrey .....	315,000
3	Madison Coal Co. No. 6.....	Divernon .....	9	{ 5 Sullivan .....	286,000
				{ 4 Morgan-Gardner .....	
4	Madison Coal Co. No. 4.....	Glen Carbon.....	26	Ingersoll-Sergeant .....	245,700
5	Consolidated Coal Co. No. 6.....	Staunton .....	14	{ 4 Yock .....	240,600
				{ 10 Harrison .....	
6	Lumaghi Coal Co. No. 2 .....	Collinsville .....	26	Sullivan .....	232,600
7	Madison Coal Co. No. 2.....	Glen Carbon.....	22	Ingersoll-Sergeant .....	225,400
8	Madison Coal Co. No. 5.....	Mt. Olive .....	17	Ingersoll-Sergeant .....	224,000
9	Odin Coal Co.....	Odin.....	8	{ 4 Jeffrey .....	211,170
				{ 4 Link Belt .....	
10	Consolidated Coal Co. No. 8.....	Mt. Olive .....	17	Harrison .....	195,100
11	Kerns Doniewald Coal Co .....	Worden .....	7	{ 5 Jeffrey .....	190,000
				{ 2 Goodman .....	
12	Consolidated Coal Co. No. 1C....	Mt. Olive .....	17	Harrison .....	174,700
13	Consolidated Coal Co. No. 7.....	Staunton .....	15	Harrison .....	171,700
14	Muren Coal & Ice Co.....	New Baden.....	18	Yock .....	170,000
15	Hillsboro Coal Co .....	Hillsboro .....	5	Morgan-Gardner .....	156,400
16	Trenton Coal Co.....	Trenton .....	20	Ingersoll-Sergeant.....	149,800
17	Consolidated C. Co. Heinz Bluff	Collinsville .....	10	Harrison .....	149,100
18	Consolidated C. Co. Abby No. 3	.do .....	10	Harrison .....	131,000
19	Walnut Hill Coal Co., Avery ....	Belleville .....	8	{ 5 Sullivan .....	115,450
				{ 3 Herzler & Henn'ger .....	
20	Superior Coal & Mining Co.....	.do .....	8	Herzler & Henninger....	109,100
21	Carterville District Coal Co .....	Marion .....	12	Sullivan .....	101,600
22	Consolidated Coal Co .....	Trenton .....	17	Harrison .....	86,700
23	Oak Hill Coal Co .....	Belleville .....	5	Harrison .....	73,600
24	Consolidated Coal Co.....	Gillespie .....	10	Harrison .....	66,900
25	Lebanon Coal & Mining Ass'n..	Lebanon .....	10	Yock .....	60,700
26	O'Fallon Coal & Mining Co .....	O'Fallon .....	8	Harrison .....	57,970
27	Consolidated Coal Co. Schure'an	Belleville .....	4	{ 3 Harrison.....	57,450
				{ 1 Ingersoll-Sergeant .....	
28	Consolidated Coal Co. Green Mt.	.do .....	5	Harrison .....	46,670
29	Consolidated Coal Co. Gartside ..	.do .....	4	Harrison .....	45,000
30	Royal Colliery Co.....	Viriden .....	11	Harrison .....	42,145

Table 53—Concluded.

COMPANY.	Location.	MACHINES.		Tons.
		No.	Name.	
Coal Co. No. 3.....	Collinsville.....	9	Sullivan.....	39,649
el Co .....	Sparta.....	3	Goodman .....	35,360
ed Coal Co.....	Fairmont .....	2	Butler .....	30,285
oal Co. No. 1.....	Gillespie.....	5	Ingersoll-Sergeant.....	25,478
ed Coal Co. Rose Hill	Belleville.....	3	Harrison .....	16,148
Marion Coal Co .....	Marion .....	6	{ 4 Ingersoll-Sergeant.. } { 2 Sullivan .....	14,266
ed Coal Co. No. 14....	Staunton.....	5	Harrison .....	8,502
& Co.....	Bunker Hill.....	2	Harrison .....	6,482
ess Brick Co.....	Golden Eagle ....	2	Ingersoll-Sergeant.....	3,110
oal Co .....	Gillespie.....	5	Ingersoll-Sergeant.....	484
		400		4,903,184

ble reveals the performance of 400 machines employed ex-  
in 40 mines, undercutting 4,903,184 tons of coal, which is  
e of ten machines to each mine 12,258 tons to each machine;  
machines are represented in the list.

act performance or efficiency of each machine cannot be  
all cases, as in several mines two kinds of machine are in

gest number of tons is shown to have been produced by the  
n-Gardner machines at the Thayer mine of the Chicago, Wil-  
Vermillion Coal company; the average for the year being  
is to each machine.

ine is reported to have been in operation 230 days, which  
e an average of 1,685 tons produced each day, or an average  
is to each machine for each day.

st largest tonnage shown in in the list, is that of the No. 1  
the Staunton Coal & Mining company, at Staunton. The  
frey machines at this mine produced an average of 39,242  
ng the year; the mine being in operation 222 days, gives  
; produced each day, and a daily average of 178 tons for each

The following gives a list of the mines in which machines have been used in producing only a part of the coal:

TABLE 54—*Mines in which only Part of the Output is Cut by Machines.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No	Name.	
1	Chicago-Virden Coal Co.....	Virden .....	10	Goodman .....	325,700
2	Donk Bros. Coal & Coke Co, No. 2	Collinsville .....	28	Sullivan .....	321,500
3	Big Muddy Coal & Iron Co.....	Murphysboro .....	14	Harrison .....	219,000
4	Big Muddy Coal & Iron Co.....	Murphysboro .....	14	Harrison .....	177,000
5	Southern Ill. C. M. & W. Co., No. 3	Marion .....	8	{ 3 Jeffrey .....	158,000
				{ 5 Goodman .....	
6	Royal Coal Co .....	Belleville .....	18	Sullivan .....	154,000
7	Madison Coal Co., No. 3 .....	Edwardsville .....	10	Ingersoll-Sergeant .....	118,000
8	Willis Coal & Mining Co .....	Willisville.....	8	{ 5 Sullivan .....	100,000
				{ 3 Goodman .....	
9	Sorento Coal Co .....	Sorento .....	8	Ingersoll-Sergeant .....	60,000
10	Dutch Hollow Coal & Mining Co.	Belleville.....	6	Herzler & Henninger...	60,000
11	Glendale Coal Co., No. 1.....	Belleville .....	5	{ 4 Herzler-Henninger }	64,500
				{ 1 Harrison .....	
12	Southern Ill. C. M. & W. Co., No. 2	Marion .....	4	Jeffrey .....	62,600
13	Christian County Coal Co.....	Taylorville .....	16	Harrison .....	52,600
14	Gartside Coal Co., No. 4.....	Murphysboro .....	5	Ingersoll-Sergeant .....	52,400
15	Henrietta Coal Co., No. 1.....	Edwardsville .....	8	{ 7 Ingersoll-Sergeant }	49,500
				{ 1 Herzler-Henninger }	
16	Chicago & Big Muddy C. & C. Co	Marion ..	3	Jeffrey .....	49,000
17	Gartside Coal Co., No. 3.....	Murphysboro .....	3	Ingersoll-Sergeant .....	34,000
18	DeCamp Coal Mining Co., No. 1.	Staunton .....	4	Goodman .....	34,000
19	Kellyville Coal Co.....	Himrod .....	19	Sullivan .....	24,000
20	Moweaqua Mining & Mfg. Co...	Moweaqua .....	5	Morgan-Gardner .....	20,000
21	M'fact's & Consumers Coal Co ..	Decatur.....	6	Harrison .....	16,000
22	Lenz Coal & Mining Co .....	Belleville.....	4	{ 2 Jeffrey .....	13,000
				{ 1 Morgan-Gardner .....	
				{ 1 Goodman .....	
23	Gus Blair Big Muddy Coal Co...	Murphysboro .....	3	Ingersoll-Sergeant .....	12,000
24	Western Coal & Mining Co.....	Bush .....	2	Sullivan .....	10,000
25	Valley Coal & Mining Co.....	East St. Louis .....	7	Harrison .....	10,000
26	Penwell Coal Co.....	Pana .....	1	Goodman .....	7,000
27	Interstate C. & M. Co., No. 1....	Worden .....	4	Ingersoll-Sergeant .....	5,000
			223		2,237,243

This accounts for 223 machines operated in 27 mines and producing 2,237,243 tons of coal. Combined with table 53 we have 67 mines operating 623 machines, undercutting 7,140,421 tons.

## POWDER USED IN MINES.

The record of the powder used in mining coal for the year is shown in the following table:

TABLE 55—*Distribution of Powder Used in all Mines, by Districts.*

DISTRICTS.	POWDER USED IN BLASTING COAL.					
	Mines.	Men.	Kegs.	Tons of Coal	Kegs per man.	Tons per keg.
.....	33	3,785	37,668	2,289,541	9.95	60.78
d .....	70	1,064	45,667	896,803	42.92	19.64
.....	141	3,123	137,937	2,957,840	44.17	21.44
.....	78	4,354	133,218	4,754,793	30.60	35.69
.....	60	6,221	213,490	7,242,208	34.32	33.92
.....	105	6,572	188,710	8,606,107	28.71	45.62
th .....	104	4,805	166,728	5,587,156	34.70	33.51
e State .....	591	29,924	923,418	32,336,448	30.86	35.02
.....	639	40,267	806,311	30,937,409	20.02	38.37
.....	657	36,559	637,448	25,556,523	17.4	40.01
.....	585	34,570	477,612	16,283,180	13.82	34.09
.....	621	29,667	490,713	19,979,219	16.5	40.71

above table for 1904 only the miners actually using powder for blasting coal are used in calculation.

This exhibit is for all mines where powder is used for reducing the coal, including both shipping and local mines. No attempt has been made to separate the mines where the long-wall system prevails from mines worked by pillar-and-room; neither is there any endeavor made for a separation of mines where the coal is undercut before blasting, from the mines where the coal is blasted from the solid block.

The record, therefore, for the year is that 923,418 kegs of powder were consumed at 591 or 63.41 per cent of the mines, employing 29,924 or 78.77 per cent of the miners, and reducing 32,336,448, or 87.21 per cent of the total tonnage of the State. From the foregoing, it is found that the State averages are 30.86 kegs per man, and 35.02 tons per keg.

In addition to the quantity of powder used for blasting down coal there were 3,717 kegs of powder used for other purposes, making a total, all told, of 927,135 kegs, consumed during the year. To this aggregate explosive used is to be added 50,649 pounds of dynamite for blasting rock, brushing and sinking shafts.

For the purpose of showing in detail where and by whom powder was used during the year, a table has been prepared, giving the ping mines only, where powder is used in connection with coal. The arrangement of the table is by districts, the mine having the largest output of tons heading each list. The number of employed are exclusively those reported as miners, the number of kegs per man and the number of tons per keg are given for each mine.

TABLE 56—*Shipping Mines in which Powder is Used for Black Coal.*

FIRST DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.
1	Chicago, Wil. & Ver. Coal Co., No. 1,*	S. Wilmington.	283,325	477	681	1.43
2	Chicago, Wil. & Ver. Coal Co., No. 2,*	S. Wilmington.	185,245	300	1,000	3.35
3	Acme Coal Co.	Streator.....	166,260	215	2,217	10.31
4	Chicago, Wil. & Ver. Coal Co.,*.....	Streator.....	159,562	231	2,127	9.21
5	Braceville Coal Co., No. 5,*	Braceville.....	156,799	230	1,700	7.39
6	Taylor & Cavanaugh, No. 4,*	Carbon Hill.....	136,166	229	250	1.09
7	Big Four Wilmington Coal Co., No. 5,*	Coal City.....	128,268	242	1,600	6.61
8	Star Coal Co., No. 2,†	Kangley.....	122,189	171	5,666	33.13
9	Matthiessen & Hegeler Zinc Co.,†	LaSalle.....	105,557	57	3,218	56.46
10	Wilmington Star Mining Co., No. 6,*	Coal City.....	103,812	150	2,556	17.04
11	Chicago, Wil. & Ver. Coal Co., No. 1,*	Streator.....	97,975	183	1,000	5.46
12	Wil. Coal Min. & Mfg. Co., No. 4,*	Diamond.....	95,874	240	2,500	10.42
13	Wil. Coal Min. & Mfg. Co., No. 5,*	Diamond.....	91,781	210	2,900	13.81
14	Cardiff Coal Co., No. 2.....	Cardiff.....	79,174	96	2,204	22.96
15	Wilmington Star Mining Co., No. 5,*	Coal City.....	73,715	115	240	2.09
16	Illinois Zinc Co.	Deer Park.....	68,632	85	1,620	19.06
17	Big Four Wil. Coal Co., No. 2,*	Coal City.....	64,750	138	1,300	9.42
18	Gardner Wilmington Coal Co.	Clark City.....	53,405	112	1,751	15.65
19	Braceville Coal Co., No. 6,*	Braceville.....	30,179	82	700	8.54
20	Beggs, Davis & Co.	Fairbury.....	24,200	27	1,336	49.48
21	Taylor & Cavanaugh, No. 5,*	Carbon Hill.....	19,545	97	325	3.35
22	William Francis	Streator.....	11,000	10	122	12.20
23	North Wilmington Coal Co.,*	Seneca.....	8,190	22	48	2.18
24	Howe Coal Co.	Streator.....	7,952	18	168	5.72

Table 56—Continued.

FIRST DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co.,* .....	Kangley .....	5,147	10	285	26.50	19.42
Attan Coal Co.,* .....	Cornell,† .....	3,282	10	50	5.00	656.40
Davis .....	Streator .....	3,196	6	60	10.00	319.50
Coal Co. ....	Pontiac, † .....	2,919	18	120	6.66	24.33
derson & Sons .....	Streator .....	1,423	4	9	2.25	159.11
ie district .....	.....	2,289,541	3,785	37,668	9.95	60.78
and room mines .....	.....	645,928	819	18,426	22.5	35.1

og wall mines. † Blasted off the solid.

## SECOND DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co., No. 3,† .....	Gilchrist .....	191,900	180	11,059	61.44	17.26
Valley Mining Co., No. 2,† .....	Sherrard .....	151,203	115	7,816	67.96	19.34
Coal Co., No. 2,† .....	Wanlock .....	110,554	94	6,513	69.29	16.97
Valley Mining Co., No. 1, † .....	Cable .....	70,853	52	2,682	51.58	26.42
nee Coal Co., ½† .....	Kewanee .....	56,290	82	675	8.23	83.39
Coal Co., No. 4,† .....	Wanlock .....	44,600	76	3,481	45.80	12.81
ning Coal Co., No. 1, ½† .....	Wyoming .....	29,658	40	2,400	60.00	12.36
Coal Co., No. 2,† .....	Carbon Cliff .....	23,936	31	1,036	33.42	23.10
City Coal Co., No. 1, *† .....	Yates City .....	23,080	35	1,000	28.57	23.09
n & Higbee, ½† .....	Wyoming .....	8,658	15	250	16.66	34.63
l Lilliman,† .....	Cable .....	6,320	10	315	31.50	20.06
r Jones,† .....	Boden .....	4,800	7	185	26.43	25.94
Petterson,† .....	Cable .....	4,000	6	200	33.33	20.00
iteer Coal Co.,† .....	Coal Valley .....	2,532	6	50	8.33	50.65
Bluff Coal Co.,† .....	Briar Bluff .....	2,480	7	158	22.57	15.69
e & Mahlstrom,† .....	Coal Valley .....	2,270	4	128	32.00	17.73
ie District .....	.....	733,134	760	37,948	49.34	19.32

o seams, one long wall. † Blasted off the solid.

Table 56—Continued.

## THIRD DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.
1	Whitebreast Fuel Co. of Ill.,† E	Dunfermline	201,945	151	9,364	62.0
2	Monmouth Coal Co.,†	Brereton	183,061	151	8,378	55.4
3	Maplewood Coal Co.,†	Peoria	162,749	150	9,000	60.0
4	Greenview Coal Co.,†	Greenview	145,772	110	5,339	48.5
5	Wabash Coal Co.,†	Athens	143,703	120	4,942	41.1
6	Clark Coal & Coke Co.,†	Peoria	122,230	100	5,909	59.0
7	Norris Coal Co.,†	Norris	104,761	85	4,200	49.4
8	Sholl Bros.,†	Peoria	103,049	90	5,266	58.5
9	Athens Mining Co.,†	Athens	101,301	83	4,337	52.2
10	Applegate & Lewis,†	Cuba	83,000	85	3,080	36.2
11	Wohlschlag Coöperative Coal Co.,†	Peoria	82,376	44	5,433	123.4
12	Central Coal Mining Co.,†	St. David	72,120	92	3,240	35.2
13	Newsam Bros.,†	Peoria	71,136	74	3,508	47.4
14	Whitebreast Fuel Co. of Ill., C,†	Dunfermline	70,855	77	3,237	42.0
15	East Cuba Coal Co.,†	Cuba	67,421	65	2,210	34.0
16	Newsam Bros.,†	Peoria	60,683	58	3,073	52.9
17	Howarth & Taylor,†	Edwards	60,125	57	3,604	63.2
18	Colliers Coöperative Coal Co.,†	Bartonville	54,380	35	2,560	73.1
19	Newsam Bros.,†	Farmington	43,734	47	2,314	49.2
20	Phoenix Coal Co.,†	Peoria	43,232	55	2,100	38.1
21	South Mountain Coal Co.,†	Petersburg	40,343	39	1,681	43.1
22	Tallula Coal Co.,†	Tallula	39,268	45	1,593	35.4
23	Vickery Bros.,†	Peoria	38,040	45	2,240	49.7
24	Whitebreast Fuel Co. of Ill., D,†	St. David	36,935	40	1,730	43.2
25	Canton Union Coal Co.,†	Canton	35,324	40	1,673	41.8
26	Scripps Coal Co.,†	Astoria	34,680	51	1,271	24.9
27	Central Coal & Coke Co.,†	Elmwood	34,606	50	2,130	42.6
28	Farmington Coal Co.,†	Farmington	32,480	42	1,240	29.5
29	W. E. Foley,†	Canton	31,390	38	1,220	32.1
30	Petersburg Coal Mining Co.,†	Petersburg	29,135	33	1,533	46.4
31	Tazewell Coal Co.,†	Pekin	25,300	45	1,100	24.4
32	A. Reents & Bro.,†	Kramm	25,230	32	1,201	37.5

Table 56—Continued.

THIRD DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Bros., †.....	Peoria .....	25,059	27	1,101	40.78	22.76
Bros., †.....	Peoria .....	24,880	27	1,360	50.37	18.29
Coal Co., †.....	Peoria .....	21,618	23	1,131	49.17	19.11
Imm & Bro., †.....	Peoria .....	20,200	25	1,240	49.60	16.28
e Coal Mining Co., †.....	Peoria .....	18,200	23	975	42.39	18.67
al Co., †.....	Peoria .....	18,140	20	820	41.00	22.12
ley†.....	Mapleton .....	17,980	30	1,400	46.67	12.84
ver Coal Co., †.....	Galesburg .....	16,960	20	610	30.50	27.80
ker, †.....	Mapleton .....	15,957	27	778	28.81	20.51
oal Co., †.....	Petersburg.....	15,260	26	1,020	39.23	14.96
in Coal Co., *.....	Orchard Mines.	13,920	32	50	1.56	278.40
ant & Son, †.....	Peoria .....	13,630	20	896	44.80	15.21
own Coal Co., †.....	Middletown ...	11,317	24	482	20.08	23.48
Coal Co., †.....	Peoria .....	10,700	15	505	33.67	21.19
Fritz, †.....	Galesburg .....	10,240	6	410	68.33	24.98
Coal & Mining Co., †.....	Farmington ...	9,233	13	475	36.54	19.44
†.....	Breeds .....	8,985	10	305	30.50	29.46
Coal Co., †.....	Cuba .....	8,360	10	360	36.00	23.22
Fritz, †.....	Galesburg .....	8,260	11	320	29.09	25.81
& Edwards, †.....	Edwards .....	5,640	8	280	35.00	20.14
District .....		2,674,803	2,626	124,224	47.31	21.53

wall. † Blasted off the solid.



Table 56—Continued.

## FOURTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—Tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Kellyville Coal Co. No. 3 †.....	Westville.....	442,028	310	11,000	35.48	40.18
2	Westville Coal Co. No. 1 †.....	Westville.....	356,042	300	11,995	39.98	29.84
3	Kellyville Coal Co. Himrod †.....	Himrod.....	348,047	290	8,700	30.00	40.01
4	Kellyville Coal Co. No. 4 †.....	Westville.....	339,810	260	8,900	34.23	38.19
5	Kellyville Coal Co. No. 2 †.....	Kellyville.....	336,330	220	8,500	38.64	39.57
6	Kellyville Coal Co., Pawnee †.....	Westville.....	267,742	205	7,000	34.15	38.25
7	Kellyville Coal Co. No. 5 †.....	Westville.....	265,255	225	7,000	31.11	37.39
8	Latham Coal Co. †.....	Lincoln.....	230,099	200	10,449	52.24	22.02
9	Springfield Coal & Min. Co †.....	Taylorville.....	208,892	180	6,281	34.89	38.21
10	Christian Co. Coal Co.....	Taylorville.....	188,113	130	4,108	31.60	45.79
11	Penwell Coal Co.....	Pana.....	156,267	160	1,402	8.76	111.46
12	Jones & Adams Coal Co. No. 2 †.....	Catlin.....	135,671	165	4,700	28.48	28.87
13	Newbent Coal Co.....	Pana.....	113,977	138	540	3.91	211.07
14	Pana Coal Co.....	Pana.....	110,513	115	506	4.40	218.41
15	Manufacturers Fuel Co.....	Pana.....	110,503	100	945	9.45	116.84
16	Moweaqua Coal Min. & Mfg. Co., ½ †.....	Moweaqua.....	109,192	125	4,600	36.80	23.71
17	Citizens Coal Mining Co. †.....	Lincoln.....	105,880	100	4,073	40.73	26.09
18	Economy Coal Co. †.....	Danville.....	103,068	100	4,000	40.00	25.72
19	Assumption Coal & Min. Co*.....	Assumption.....	96,534	129	180	1.40	536.39
20	Consolidated Coal Co. †.....	Fairmount.....	94,118	70	5,365	76.64	17.30
21	Lincoln Coal Co. †.....	Lincoln.....	71,174	95	2,450	25.79	28.05
22	John O'Connell Coal Co. †.....	Danville.....	54,893	81	2,045	25.25	26.14
23	Electric Coal Co. †.....	Danville.....	51,384	75	1,975	26.33	26.02
24	Colfax Coal Co. †.....	Colfax.....	42,966	64	1,783	27.86	21.09
25	Decatur Coal Co.....	Niantic.....	39,929	35	1,500	42.86	26.02
26	Consolidated Coal Co.....	Missionfield.....	30,285	10	228	22.80	132.83
27	Manufacturers & Consumers Coal Co.....	Decatur.....	26,824	30	270	9.00	99.55
28	Consumers Coal Co. †.....	Ch noa.....	25,174	20	1,877	93.85	13.41
29	Colfax Co-operative Coal Co. †.....	Colfax.....					
30	Mauck Bros. †.....	Danville.....	22,333	18	821	45.61	27.29
31	Westville Coal Co. No 2 †.....	Westville.....	20,000	50	878	17.56	2
32	C. J. White †.....	Grape Creek.....	18,513	16	617	38.56	30.00
33	Bunting Bros. †.....	Grape Creek.....	11,897	13	444	14.15	26.80

Table 56—Continued.

FOURTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mines.	Output—Tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Coal Co. †.....	Mt. Pulaski .....	11,851	25	815	32.80	14.54
d Coal Co. † .....	Oakwood .....	11,000	10	500	50.00	22.00
ay †.....	Oakwood .....	10,000	10	350	35.00	28.57
Coal Co. ....	Tower Hill.....	10,000	15	45	3.00	222.22
l Co. †.....	Vandercook .....	9,500	20	352	17.60	26.99
avis †.....	Muncie .....	6,000	23	300	13.04	20.00
g Coal Co. † .....	Edinburg .....	1,886	8	55	6.88	34.29
. Fenwick † .....	Danville .....	1,700	2	65	32.50	26.15
Hall †.....	Grape Creek.....	1,140	2	40	20.00	28.50
& Ellis †.....	Danville .....	557	2	25	12.50	22.28
District .....	.....	4,597,087	4,146	127,679	31.74	35.30

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g wall mine.

—The Long Wall mine is not considered in the district average of kegs per man, nor eg.

## FIFTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
o, Wil. & Vermillion Coal Co.	Thayer .....	387,652	210	4,276	20.36	90.66
o, Virden Coal Co., No. 1.....	Virden.....	348,388	220	4,177	18.99	59.47
n Coal Co.....	Divernon.....	286,880	142	3,030	21.34	94.68
& Adams Coal Co., No. 6, †....	Springfield .....	261,991	216	10,757	49.80	24.36
Coal Co., †.....	Pawnee .....	249,315	210	10,383	49.44	24.01
dated Coal Co., No. 6.....	Staunton .....	240,653	180	1,252	6.96	192.21
o, Virden Coal Co., No. 2, †....	Auburn.....	337,983	225	10,087	44.83	23.59
ield Coal & Mining Co., No. 2†	Riverton.....	235,658	172	9,905	57.59	23.79
n Coal Co. No. 5.....	Mt. Olive .....	224,330	119	852	7.16	263.30
Coöperative Coal Co., †.....	Springfield .....	197,344	158	7,588	48.02	28.51
dated Coal Co., No. 8.....	Mt. Olive.....	195,133	150	762	5.08	256.08

Table 56—Continued.

## FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of horses employed.
12	Springfield Coal & Mining Co., No. 5†	Springfield .....	186,439	138	7,837	5
13	Girard Coal Co., †.....	Girard .....	183,312	161	7,404	4
14	Consolidated Coal Co., No. 10.....	Mt. Olive .....	174,273	140	708	
15	Consolidated Coal Co., No. 7.....	Staunton .....	171,753	145	951	
16	Springfield Coal & Mining Co., No. 4†	Springfield .....	162,193	157	6,565	4
17	Greenridge Mining Co., †.....	Greenridge.....	161,834	160	6,729	4
18	Woodside Coal Co., †.....	Springfield .....	160,536	161	6,675	4
19	Springfield Coöperative Coal Co., †..	Springfield .....	160,000	140	6,645	4
20	Hillsboro Coal Co. ....	Hillsboro .....	156,498	110	1,152	1
21	West End Coal Co., †.....	Springfield .....	150,272	129	6,082	4
22	Springfield Coal & Mining Co., No. 1†	Riverton .....	144,135	118	6,158	5
23	Viriden Coal Co., †.....	Viriden .....	141,642	120	5,001	4
24	Montgomery Coal Co.....	Paisley .....	136,863	140	955	1
25	Springfield Coal & Mining Co., No. 3†	Springfield .....	132,435	108	5,731	5
26	Jefferson Coal Co., †.....	Springfield .....	131,052	90	5,200	5
27	Sangamon Coal Co., †.....	Springfield .....	126,005	138	5,731	4
28	Auburn & Alton Coal Co., †.....	Auburn .....	121,090	110	6,027	5
29	Cantrall Coöperative Co., †.....	Cantrall .....	116,611	98	5,035	5
30	Carlinville Coal Co., †.....	Carlinville .....	109,654	120	4,593	3
31	Wilmington & Springfield Coal Co. †	Springfield .....	109,258	109	4,545	4
32	Wabash Coal Co., No. 1, †.....	Dawson .....	107,606	90	4,958	5
33	Spaulding Coal Co., No. 1, †.....	Spaulding .....	105,873	110	2,758	2
34	Litchfield Mining & Power Co., †....	Litchfield .....	105,114	90	4,200	4
35	Chicago, Viriden Coal Co., No. 3, †....	Chatham.....	104,881	108	4,847	4
36	Citizens' Coal Mining Co., B, †.....	Springfield .....	103,353	102	4,134	4
37	Williamsville Coal Co., †.....	Selbytown .....	100,295	85	4,011	4
38	Spaulding Coal Co., No. 2, †.....	Bissell .....	94,788	125	2,687	2
39	Barclay Coal Mining Co., †.....	Barclay .....	94,399	99	3,631	3
40	Clover Leaf Coal Co., †.....	Coffeen.....	92,476	65	3,281	5
41	Citizens' Coal Mining Co., A, †.....	Springfield .....	82,932	94	3,392	3
42	Trutter Coal Co., †.....	Pleasant Plains.	81,000	40	3,240	8
43	Consolidated Coal Co.....	Gillespie.....	66,988	90	403	
44	Manufacturers' Fuel Co., †.....	Nilwood .....	63,463	75	2,115	2

Table 56—Continued

FIFTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
Colliery Co.,†.....	Virden.....	49,870	75	2,528	33.71	19.73
idated Coal Co.....	Hornsby.....	42,145	40	227	5.67	185.66
r Coal Co., No. 1.....	Gillespie.....	25,478	51	175	3.43	145.59
m Coal Co.,†.....	Keys.....	22,502	32	900	28.12	25.00
o, Springfield Coal Co.,†.....	Springfield.....	11,087	48	485	10.10	22.86
y Mining Co.,†.....	Sherman.....	9,500	62	40	.65	237.50
idated Coal Co., No. 14.....	Staunton.....	8,502	40	102	2.55	83.35
r Coal Co., No. 2.....	Gillespie.....	484	18	25	1.39	19.36
districts.....		7,173,718	6,131	210,782	34.38	34.03

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## SIXTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
ros. Coal & Coke Co., No. 1,†	Collinsville.....	475,179	360	16,746	46.52	28.38
er & Davis, Nos. 3 and 4,†....	Centralia.....	431,247	305	12,420	40.72	34.72
ros. Coal & Coke Co., No. 2..	Collinsville.....	390,017	230	5,721	24.87	68.17
is & O'Fallon Coal Co., No. 1,†	Belleville.....	318,579	170	12,216	71.86	26.08
n Coal Co., No. 1.....	Staunton.....	315,853	206	1,993	9.67	158.48
ros. Coal & Coke Co., No. 3..	Troy.....	291,302	244	8,462	34.68	34.42
Coal Co.,†.....	Breese.....	271,667	140	6,589	47.06	41.23
n Coal Co., No. 4.....	Glen Carbon...	245,736	178	2,094	11.76	117.35
ia Min. & Mfg. Co., No. 2,†..	Centralia.....	243,171	185	7,452	40.28	32.61
hi Coal Co., No. 2.....	Collinsville.....	232,820	140	2,815	20.11	82.71
n Coal Co., No. 2.....	Glen Carbon...	225,412	165	1,444	8.75	156.10
oal Co.....	Odin.....	211,174	155	1,959	12.64	107.80
Doniewald Coal Co., No. 1..	Worden.....	190,115	165	2,200	13.33	86.82
al Coal Co.,†.....	Sandoval.....	182,543	150	6,974	46.49	26.17

Table 56—Continued.

## SIXTH DISTRICT—Continued.

Numbers.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per
15	Sorento Coal Co., † .....	Sorento .....	176,116	166	4,000	24.10	4
16	Consolidated Coal Co., † .....	Breese .....	174,807	150	3,984	26.56	4
17	Royal Coal & Mining Co. ....	Belleville .....	172,442	130	2,400	18.46	7
18	Muren Coal & Ice Co. ....	New Baden .....	170,469	140	1,858	13.27	1
19	Muren Coal & Ice Co., No. 1 .....	Belleville .....	159,771	120	4,595	38.29	1
20	Trenton Coal Co. ....	Trenton .....	149,816	140	896	6.40	16
21	Consolidated Coal Co., Heinz Bluff ..	Collinsville .....	149,101	76	1,111	14.62	13
22	Consolidated Coal Co., Abbey No. 3.	Collinsville .....	131,002	75	997	13.29	13
23	Madison Coal Co., No. 3. ....	Edwardsville .....	121,136	100	1,327	13.27	9
24	Walnut Hill Coal Co. ....	Belleville .....	115,457	70	900	12.86	12
25	Kolb Coal Co., No. 1, † .....	Mascoutah .....	114,440	94	3,800	40.42	3
26	Superior Coal & Mining Co. ....	Belleville .....	109,199	90	2,700	30.00	4
27	Madison Coal Co., No. 7, † .....	Belleville .....	101,883	65	3,037	46.72	3
28	Joseph Taylor, Taylor, † .....	O'Fallon .....	95,602	72	2,842	39.47	3
29	Glendale Coal & Mining Co., No. 1.	Belleville .....	92,000	78	1,240	15.90	7
30	Missouri & Illinois Coal Co., † .....	Belleville .....	91,337	68	2,256	33.18	4
31	Dutch Hollow Coal & Mining Co. ....	Belleville .....	87,428	50	1,104	22.08	7
32	Consolidated Coal Co. ....	Trenton .....	86,768	80	520	6.50	16
33	Borders Coal Co., † .....	Marissa .....	86,050	50	2,458	49.16	3
34	Kolb Coal Co., Vinegar Hill, † .....	Mascoutah .....	80,590	65	2,686	41.32	3
35	Valley Coal & Mining Co., † .....	Birkner .....	80,000	45	2,500	55.55	3
36	Daniel Zildorph, † .....	Marissa .....	78,329	44	2,272	51.64	3
37	Joseph Taylor, Mentor, † .....	O'Fallon .....	75,013	80	1,918	23.98	3
38	Oak Hill Coal Co. ....	Belleville .....	73,959	36	680	18.89	10
39	Germantown Coal Co., † .....	Germantown ..	71,988	65	3,100	47.69	2
40	Eureka Coal Co., † .....	Marissa .....	71,265	47	2,424	51.58	2
41	Dutch Hollow Coal & Mining Co., Randle, † .....	Freeburg .....	69,233	50	1,816	36.32	3
42	Summit Coal Co., † .....	Belleville .....	68,900	45	2,402	53.38	2
43	Henrietta Coal Co. † .....	Edwardsville ..	68,484	48	1,223	25.42	5
44	Tirre Coal & Mining Co. † .....	Lenzburg .....	67,362	49	1,182	24.12	5
5	Belleville & O'Fallon Coal Co. † .....	Belleville .....	66,992	47	1,851	39.38	3

Table 56—Continued.

## SIXTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
ion Coal & Mining Ass'n.....	Lebanon.....	60,793	90	900	10.00	67.55
ion Coal & Mining Co.....	O'Fallon.....	57,979	37	685	18.51	84.64
olidated Coal Co., Schureman ..	Belleville.....	57,451	35	384	10.97	149.61
ion Coal Co.†.....	Marissa.....	52,652	43	1,333	31.00	39.50
Hippard, Hippard†.....	Belleville.....	49,544	50	1,549	30.98	31.34
h Guest & Son†.....	Belleville.....	48,758	78	1,897	24.32	25.70
Ratican†.....	Caseyville.....	46,700	47	2,700	57.45	17.30
z Ill. Coal Co., Wilderman†.....	Belleville.....	46,688	35	1,432	40.91	32.60
olidated Coal Co., Green Mt....	Belleville.....	46,676	25	363	14.52	128.58
olidated Coal Co., White Oak...	Marissa.....	46,383	40	1,330	33.25	34.87
olidated Coal Co., Gartside.....	Belleville.....	45,938	40	342	8.55	134.32
olidated Coal Co., Brookside†...	Troy.....	45,058	42	1,121	26.69	40.19
z Ill. Coal Co., St. Clair†.....	Belleville.....	45,042	43	1,352	30.98	33.82
ghi Coal Co., No. 3.....	Collinsville.....	39,649	40	789	19.72	50.25
mp Mining Co., No. 1.....	Staunton.....	38,850	35	585	16.71	66.41
land Coal Co.†.....	Belleville.....	36,453	30	667	22.23	54.65
Superior Coal Co.†.....	Belleville.....	35,734	25	1,050	42.00	34.03
prise Mining Co.†.....	Rentchler.....	33,600	18	1,002	55.67	33.53
Hippard, Walnut Valley.....	Belleville.....	31,617	45	1,746	38.67	18.17
1 Hollow Coal & Mining Co.†...	Marissa.....	30,864	30	985	32.83	31.33
ale Coal Co., No. 2†.....	Belleville.....	30,650	30	730	24.33	41.99
st Coal Co.†.....	Belleville.....	30,000	30	700	23.33	42.86
boldt Coal Co.†.....	Belleville.....	30,000	28	775	27.68	38.71
ght Coal Co.†.....	Freeburg.....	29,925	23	922	40.09	32.46
state Coal Co.....	Worden.....	27,353	40	841	21.03	32.52
olidated Coal Co., Richland†...	Belleville.....	25,886	25	671	26.84	38.58
es Hortman†.....	Belleville.....	25,885	20	560	28.00	46.22
Coal & Mining Co., Harmony.	Belleville.....	19,683	50	518	10.36	38.00
Bros. C. & C. Co., abandoned..	Belleville.....	18,512	24	586	24.42	31.59
urg Mining Co.†.....	Belleville.....	16,680	17	310	18.24	53.81
olidated Coal Co., Rose Hill....	Belleville.....	16,148	20	129	6.45	125.18
Murphy†.....	Belleville.....	16,000	12	850	54.17	24.82

Table 56—Continued.

SIXTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
78	Joseph Taylor, St. Ellen.....	O'Fallon.....	10,980	17	365	21.47	30.08
79	Kinmundy Coal Co.†.....	Kinmundy.....	10,745	23	200	8.70	53.72
80	Dutch Hill Coal Co.†.....	New Athens.....	10,000	12	300	25.00	33.33
81	Lenz Coal & Mining Co., Shiloh.....	Belleville.....	8,920	15	360	24.00	24.80
82	Salem Coal Co.†.....	Salem.....	4,854	8	30	3.75	161.80
83	Beatty Coal Co.†.....	Mascoutah.....	4,704	10	89	8.90	52.85
	Total district.....		8,515,128	6,460	186,092	28.81	45.75

† Blasted off the solid.

## SEVENTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Big Muddy Coal & Iron Co., No. 7. .	Herrin .....	412,887	267	13,196	49.42	31.29
2	Sunnyside Coal Co., No. 1.†.....	Herrin .....	345,767	205	11,313	55.19	30.36
3	Chi. & Carterville Coal Co., No. 1.† ..	Herrin .....	343,006	210	11,572	55.10	29.64
4	Willis Coal Mining Co., No. 1.....	Willisville .....	241,751	143	5,823	40.72	41.52
5	St. Louis & Big Muddy C. Co., Burr..	Dewmaine.....	227,261	185	8,717	47.12	26.07
6	Muddy Valley Min. & Mfg. Co.† ....	Hallidayboro....	222,516	160	8,391	52.44	26.52
7	S. Ill. Coal Min. & Wash'g Co., No. 3.†	Marion .....	198,794	140	2,978	21.27	66.75
8	White Walnut Coal Co.†.....	Pinckneyville ..	184,769	157	6,129	39.04	30.15
9	New Virginia Coal Co.†.....	Lake Creek .....	165,710	125	4,800	38.40	34.32
10	S. Ill. Coal Min. & Wash'g Co., No. 2.†	Marion.....	127,305	120	3,310	27.58	47.52
11	West'n Anthracite Coal & Coke Co.†	Sparta .....	148,000	75	2,600	34.67	56.92
12	Chicago Herrin Coal Co.† .....	Herrin .....	147,571	97	4,890	50.41	30.18
13	Davenport Coal Co.†.....	Ledford .....	139,071	100	2,300	23.00	60.47
14	Chi. & Big Muddy C. & C. Co., No. 1.†	Marion.....	128,429	119	3,815	32.06	33.66
15	Joh's'n C'y & Big Muddy C. Min. Co.†	Lake Creek .....	128,399	95	3,805	40.05	33.7.

Table 56—Continued.

## SEVENTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per man.
umson Co. Coal Co.†	Lake Creek	128,831	110	4,741	43.10	27.07
ville Coal Co., Burr.†	Carterville	125,223	87	3,370	38.74	37.16
facturers Fuel Co., No. 1.†	Duquoin	113,440	127	2,427	19.11	46.74
s Colliery Co.†	Duquoin	110,184	105	2,816	26.82	39.13
ville District Coal Co.†	Marion	101,497	65	1,190	18.31	85.29
t Coal Co.†	Sparta	96,309	75	3,659	48.79	26.32
ville Coal Co., No. 2.†	Carterville	84,348	46	2,811	61.11	30.01
Superior Coal Min. Co.†	Duquoin	77,390	84	2,325	27.68	33.29
ly Kennicke Coal Co.†	Carterville	74,048	80	2,800	35.00	26.44
n Coal Co.†	Ledford	72,647	50	2,900	58.00	25.05
Coal Co., No. 1.†	Harrisburg	67,000	50	2,400	48.00	27.92
de Coal Co., No. 4	Murphysboro	69,690	60	665	11.08	104.80
facturers Fuel Co., No. 4.†	Pinckneyville	65,458	94	2,342	24.91	27.95
facturers Fuel Co., No. 3.†	Duquoin	63,181	78	2,241	28.73	28.19
Ill. Coal Co., No. 4.†	Willisville	62,024	50	1,823	36.46	34.02
Dick Coal Co.†	Carterville	61,821	64	2,150	33.60	28.75
in Coal & Coke Co.†	Equality	60,178	65	2,444	37.54	24.66
s Coal Mining Co., No. 6.†	Percy	57,824	90	1,806	20.07	32.02
& Co.†	Cutler	53,258	60	2,000	3,333	26.63
al Coal Co.†	Tilden	52,172	72	1,752	24.33	29.78
Muddy Coal Co.†	Tamara	51,200	65	1,500	23.08	34.13
wood Davis Coal Co.†	Duquoin	51,094	50	1,162	23.24	43.97
go & Carbondale Coal Co.†	Elk Ridge	50,000	100	1,786	17.86	28.00
facturers Fuel Co., No. 2.†	St. John	48,197	58	1,793	30.91	26.88
n Coal Co.†	Tilden	46,143	57	1,561	27.39	29.56
de Coal Co., No. 3	Murphysboro	42,322	30	425	14.17	99.58
is Fuel Co., No. 3	Sparta	42,064	35	1,428	40.57	29.62
is Fuel Co., No. 4.†	Sparta	35,380	20	600	30.00	58.93
s Coal Mining Co. No. 5.†	Percy	35,166	46	1,372	29.83	25.63
go & Coulterville Coal Co.†	Coulterville	32,892	35	600	17.14	54.82
Co. Coal Co.†	Duquoin	30,234	30	1,280	42.67	23.62
erville Mining Co.†	Coulterville	29,300	28	750	26.79	39.07



Table 56—Concluded.

SEVENTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
48	Carterville & Big Muddy Coal Co.†	Lauder .....	27,831	96	580	10.21	28.40
49	A. E. Powell.†	Coulterville.....	24,733	30	750	25.00	32.98
50	Willis Coal & Mining Co., No. 2. †	Bryden.....	22,403	30	899	29.97	24.92
51	Eaton Fuel Co.†	Sunfield.....	21,975	35	688	19.66	31.94
52	Hugh Murray.†	Nashville .....	19,930	22	570	25.91	34.96
53	Western Coal & Mining Co .....	Bush .....	18,821	40	1,295	32.37	14.53
54	Chicago & Marion Coal Co.†	Marion.....	14,266	10	325	32.50	43.90
55	Gus Blair Big Muddy Coal Co.....	Murphysboro ..	12,960	15	150	10.00	86.40
56	Strait Coal Co.†	Pinckneyville..	11,415	16	450	28.13	25.37
57	Carterville Mining Co.†	Herrin .....	10,884	30	320	10.67	34.01
58	M. H. Wilson.†	Duquoin .....	10,000	9	200	22.22	50.00
59	Morris Coal Co.†	Carrier Mills....	9,410	12	325	27.08	28.96
60	Davis Coal & Iron Co.†	Duquoin .....	8,000	15	200	13.33	40.00
61	Eldorado Coal & Coke Co.†	Eldorado .....	6,443	8	333	41.62	19.35
62	Schmidtgal Coal Co.....	Murphysboro ..	5,953	8	237	29.63	25.12
63	Carterville & Herrin Coal Co.†	Herrin .....	5,950	12	250	20.83	23.80
64	M. Hampton.†	Carterville.....	3,935	4	135	33.75	29.15
65	Manufacturers Fuel Co.†	St. John.....	3,562	5	78	15.60	45.67
66	St. Louis & Carterville Coal Co.†	Herrin .....	2,357	6	84	14.00	28.06
67	East Side Coal Co.†	Equality .....	1,063	5	38	7.60	27.97
68	Watson Coal Co.†	Carterville.....	200	4	25	6.25	8.00
	Total district.....		5,523,322	4,676	164,890	35.26	33.50

† Blasted off the solid.

This table gives the record of the powder used in the shipping mines of the State for blasting coal. It would be a very difficult matter to explain or account for the variations in the quantity of powder used or the results obtained in mines located in contiguous territory. The table presents an opportunity to observe the facts concerning the use of powder as an agent in the work of mining coal in all the different seams and divisions of the State. This table is recapitulated by districts, as follows:

TABLE 57—*Recapitulation of Table 56—Shipping Mines in Which Powder Is Used for Blasting Coal.*

DISTRICT.	Number of mines.	Total tons.	Number of men.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
First .....	29	2,289,541	3,785	37,668	9.95	60.78
Second .....	16	733,134	760	37,948	49.34	19.32
Third .....	52	2,674,893	2,626	124,224	47.31	21.53
Fourth .....	43	4,597,087	4,146	127,679	31.74	35.30
Fifth .....	52	7,173,718	6,131	210,782	34.38	34.08
Sixth .....	83	8,515,128	6,460	186,062	28.81	45.75
Seventh .....	68	5,523,322	4,676	164,890	35.26	33.50
The State .....	343	31,506,823	28,584	889,283	31.25	35.33

The number of mines here represented is 343 of the 380 shipping mines. Comparing the results obtained here with those shown in table 55, where all mines of the State using powder to bring down the coal are represented, it will be seen that very slight variation is shown, either by districts or the State, in the number of kegs of powder used per man or the tons produced per keg.

## FATAL ACCIDENTS IN MINES.

The returns of the inspectors for the year show that 157 mine employes throughout the State have met death while working in and around the mines.

The following table gives the record of these casualties by districts:

TABLE 58—*Fatal Casualties by Districts—1904.*

DISTRICT.	Total number killed.		WHERE EMPLOY'D.		EMPLOYES.			Total number of tons coal mined.	Number of employ'cs to each death.	Rate per 1,000.	Number of tons of coal mined to each death.
	Under ground.	Above ground.	Under ground.	Above ground.	Total.						
First.....	13	13	.....	7,367	671	8,038	3,450,315	618	1.62	265,409	
Second .....	7	6	1	6,788	574	7,362	3,322,490	1,052	0.95	476,070	
Third.....	16	16	.....	4,321	487	4,808	3,058,414	301	3.33	191,151	
Fourth .....	29	26	3	6,591	702	7,293	5,142,786	251	3.98	177,337	
Fifth .....	27	22	5	8,565	976	9,541	7,280,287	353	2.83	269,640	
Sixth .....	35	35	.....	8,665	1,000	9,665	8,634,726	276	3.62	246,706	
Seventh.....	30	30	.....	7,064	1,063	8,067	6,188,879	269	3.72	206,236	
The State.....	157	148	9	49,361	5,413	54,774	37,077,897	349	2.87	236,165	

The number of fatal casualties this year is 157, one more than reported last year. The fourth, fifth, sixth and seventh districts account for 77 percent of this number.

For the State the number of employes for each death is 349, while for the districts the range is from 251 to 1,052; the number of tons to each life lost for the State is 236,165; considered by districts the number of tons is both above and below that for the State. The mortality in the coal mines of the State for 22 years is shown in the following table:

TABLE 59—*Fatal Accidents for Twenty-two Years.*

YEAR.	Number killed.	Total number of employes.	Total tons of coal mined.	Number of employes to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,457	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	285,368
1885.....	39	25,436	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	280,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	286,316
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,062,276	580	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	32,635	17,113,576	453.3	2.2	237,688
1895.....	75	31,962	17,735,364	426.2	2.3	236,478
1896.....	77	33,054	19,786,626	429.2	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,610
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,982
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
1904.....	157	54,774	37,077,897	348.9	2.87	236,165
Averages for 22 years.	77.5	34,328	19,392,884	442.9	2.26	250,253

During this period 1,705 employes have lost their lives at the mines of the State; this is an average of 77.5 deaths per annum and a death rate of 2.26 per 1,000 persons employed.

For the first 11 years shown in this table the average deaths per annum was 58.91 and a rate of 2. per 1,000 employees, while for the last 11 years the average deaths per annum was 96.1 and a rate of 2.41 per 1,000 men employed. The following table presents by districts the fatal accidents for the year, analyzed by causes:

TABLE 60—*Fatal Accidents by Causes for 1904, with Totals and Averages for 15 Years.*

CAUSES.	Totals.	DISTRICTS.							Percentages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
Blast explosion.....	3	.....	.....	1	.....	.....	.....	2	1.91
Boiler explosion.....	1	.....	.....	.....	.....	.....	.....	1	0.64
Cages.....	4	.....	.....	.....	1	2	1	.....	2.55
Electrocuted.....	1	.....	.....	1	.....	.....	.....	.....	0.64
Falling coal and rock.....	65	10	2	7	13	10	18	5	41.4
Falling down shaft.....	8	1	1	.....	2	.....	4	.....	5.1
Falling from bucket.....	1	.....	.....	.....	.....	.....	.....	1	0.64
Falling from building.....	1	.....	.....	.....	.....	1	.....	.....	0.64
Falling from cage.....	1	.....	.....	.....	.....	.....	.....	1	0.64
Falling into sump.....	1	.....	.....	.....	.....	.....	.....	1	0.64
Falling timber.....	1	.....	.....	.....	.....	1	.....	.....	0.64
Flying coal.....	9	.....	.....	.....	4	.....	2	3	5.73
Heart failure.....	1	.....	.....	.....	.....	.....	.....	1	0.64
Machinery.....	5	.....	1	.....	2	2	.....	.....	3.18
Pit cars.....	21	1	1	3	5	2	4	5	13.38
Powder explosion.....	14	1	.....	1	.....	1	1	10	8.9
Premature blasts.....	16	.....	2	3	1	5	5	.....	10.19
Railroad cars.....	2	.....	.....	.....	1	1	.....	.....	1.27
Windy shot.....	2	.....	.....	.....	.....	2	.....	.....	1.27
Totals, 1904.....	157	13	7	16	29	27	35	30	100.00
Totals, 1903.....	156	24	11	9	30	26	32	24	.....
Totals, 1902.....	99	15	7	6	20	17	19	15	.....
Totals, 1901.....	99	11	9	4	21	17	22	15	.....
Totals, 1900.....	94	18	7	5	24	22	11	7	.....
Totals, 1899.....	84	7	12	4	11	14	22	14	.....
Totals, 1898.....	75	12	10	4	19	5	8	17	.....
Totals, 1897.....	69	11	9	4	10	19	11	5	.....
Totals, 1896.....	77	18	11	4	14	16	4	10	.....

Table 60—Concluded.

CAUSES.	Totals.	DISTRICTS.						
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
Totals, 1895.....	75	16	12	16	15	16	.....	.....
Totals, 1894.....	72	19	9	10	19	15	.....	.....
Totals, 1893.....	69	17	5	12	10	25	.....	.....
Totals, 1892.....	57	10	1	11	24	11	.....	.....
Totals, 1891.....	60	15	4	9	12	20	.....	.....
Totals, 1890.....	53	16	5	10	11	11	.....	.....
Aggregates, 15 and 9 years.....	1,296	222	119	124	269	261	164	17
Averages, 15 and 9 years.....	86.4	14.8	7.9	8.3	17.9	17.4	18.2	15
Percentages, 9 years—1896-1904.....	.....	14.18	9.12	6.15	19.56	17.91	18.02	18

This table also gives the fatal accidents by districts for 15 years. Referring to the number killed this year, it is found that 77 per cent of the whole occurred in the fourth, fifth, sixth and seventh districts, the largest number being in the sixth. There are 19 distinct causes attributed for the 157 fatalities; the falling of the roof and the rooms and working places of the miners continues to be the leading cause of deaths in the mines.

The several causes of the fatal accidents occurring year by year in the mines of the State have been reduced to embrace seven, which are considered to be leading causes. These are shown in the following table for 17 years:

TABLE 61—*Fatal Accidents for Seventeen Years, by Leading Causes.*

YEARS.	LEADING CAUSES.							
	Blasts and explosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.
1888.....	9	2	33	4	.....	6	1	.....
1889.....	3	4	26	2	.....	5	.....	2
1890.....	4	4	36	.....	5	3	1	.....
1891.....	11	4	33	1	4	2	2	3
1892.....	4	4	28	8	3	6	1	3
1893.....	6	4	48	3	2	2	1	3
1894.....	8	8	43	5	.....	6	2	.....

Table 61—Concluded.

YEARS.	LEADING CAUSES.								
	Blasts and explosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	Total.
.....	12	4	38	4	5	5	1	6	75
.....	9	5	41	6	2	7	1	6	77
.....	11	.....	46	5	2	1	1	3	69
.....	11	2	43	4	7	2	1	5	75
.....	4	5	51	4	4	6	1	9	84
.....	17	4	51	1	1	11	2	7	94
.....	3	1	57	1	1	11	.....	25	99
.....	13	2	55	7	.....	15	2	5	99
.....	47	6	77	2	.....	18	.....	6	156
.....	44	4	65	8	.....	21	2	13	157
.....	216	63	771	65	36	127	19	96	1,393
For 17 years.	15.51	4.52	55.35	4.67	2.58	9.12	1.36	6.89	100.00

total number of deaths from accidents, in and around the of the State, during the 17 years represented, was 1,393, being age of 82 for each year; the past six years the number has above this average, and for the past two years 90 per cent more the average.

fatal and non-fatal accidents for the year, reduced so as to those traceable to the use of explosives in the mines, is shown following table:

62—Fatal and Non-Fatal Accidents, Caused by Explosions, Falling Coal and Rock, and all Other Causes.

CAUSE.	CASUALTIES.		PERCENTAGES.		Totals.	Percentages.
	Fatal.	Non-Fatal.	Fatal.	Non-Fatal.		
Explosions.....	17	34	10.83	6.70	51	7.68
Immaturity.....	16	5	10.19	.99	21	3.16
Shot shots.....	2	2	1.28	.39	4	0.6
Falling coal.....	9	12	5.73	2.37	21	3.16
Falling coal and rock or slate.....	65	264	41.40	52.07	329	49.52
Other causes.....	48	190	30.57	37.48	238	35.85
.....	157	507	100.00	100.00	664	100.00

The total number of accidents, in mines, both fatal and non-fatal, for the year, was 664. The non-fatal accidents reported are for employes losing one month or more of time: these represent 76.36 per cent of the whole, while the fatalities are 23.64 per cent.

Both the fatal and non-fatal accidents caused by explosions of all kinds, and by flying coal, are considered as ascribable to the use of powder.

In this connection it may also be stated that the inspectors in reporting some of the accidents in both classes as resulting from falling coal, rock, etc., make mention that they are inclined to the belief that the results came from blasting, but, not being positive, report them as being caused by falls. Therefore, in considering the number of accidents clearly traceable to the use of powder in the mines, there must always be reckoned an unknown number, that, meeting death or being maimed by falling roof and sides, if possible to trace to the primary cause, might be found to have originated from the concussions caused by explosions.

A series of tables for the last four years bearing directly on this matter have been prepared and follow:

TABLE 63—*Fatal Accidents by Causes and by Districts, for the Year Ended July 1, 1901.*

DISTRICTS.	Blast explo- sion.	Blast prema- ture.	Blow out shots	Powder explo- sion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First .....						9	2	11
Second .....	1				3	4	1	9
Third.....				2		1	1	4
Fourth .....		1			2	14	4	21
Fifth.....		7				5	5	17
Sixth.....					3	14	5	22
Seventh .....				1		10	4	15
The State.....	1	8		3	8	57	22	99

TABLE 64—*Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1902.*

DISTRICTS.	Blast explosion.	Blast premature.	Blown out shots	Powder explosion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First .....				1	1	9	4	15
Second .....						5	2	7
Third.....	1					5		6
Fourth .....		2				10	8	20
Fifth.....		6				5	6	17
Sixth.....		1		2		13	3	19
Seventh.....	1				2	8	4	15
The State....	2	9		3	3	55	27	99

TABLE 65—*Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1903.*

DISTRICTS.	Blast explosion.	Blast premature.	Blown out shots	Powder explosion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First .....		1				13	10	24
Second .....					1	6	4	11
Third .....			6			3		9
Fourth .....				2		20	8	30
Fifth.....		5	6	1		7	7	26
Sixth.....	1	1	8		1	15	6	32
Seventh .....	2	3			1	12	6	24
The State....	3	10	20	3	3	76	41	156

TABLE 66—*Fatal Accidents by Causes and by Districts for the Year Ended July 1, 1904.*

DISTRICTS.	Blast explosion.	Blast premature.	Blown out shots	Powder explosion.	Flying coal.	Falling coal, rock, etc.	Other causes.	Total.
First.....				1		10	2	13
Second .....		2				2	3	7
Third .....	1	3		1		7	4	*16
Fourth .....		1			4	13	11	29
Fifth.....		5	2	1		10	9	*27
Sixth.....		5		1	2	18	9	35
Seventh.....	2			10	3	5	10	30
The State....	3	16	2	14	9	65	48	157

\*One shot firer.



The foregoing tables have been condensed and are presented in the following table:

TABLE 67—*Fatal Accidents for Four Years ended July 1, 1901, 1902, 1903, 1904, by Districts.*

DISTRICT.	Blast explosions.	Blast prema- ture.	Blown out shots.	Powder explosions.	Flying coal.	Falling coal, rock etc.	All other causes.	Total.
First .....		1		2	1	41	18	63
Second .....	1	2			4	17	10	34
Third .....	2	3	6	3		16	5	35
Fourth .....		4		2	6	44	44	100
Fifth .....		23	8	2		27	27	87
Sixth .....	1	7	8	3	6	60	23	108
Sevenths .....	5	3		11	6	35	24	84
Totals .....	9	43	22	23	23	240	151	511
Percentages .....	.76	8.42	4.3	4.5	4.5	46.97	29.55	100.00
Class percentages .....			23.48			76.52		100.00

This table, by districts and causes, shows a total of 511 fatal accidents during the four years ranging from 34 in the second district to 108 in the sixth.

Directing attention to the bottom lines showing the totals and percentages of the several causes, it is shown that 120 deaths or 23.48 per cent of the whole were caused from blasts of all kinds, and flying coal from blasts; leaving 240 or 46.97 per cent of the fatalities caused by falling coal, rock, etc., and 151 or 29.55 per cent to all other causes.

The foregoing table is presented in another form showing the record by causes and districts:

TABLE 68—*Fatal Accidents for Four Years, ended July 1, 1901, 1902, 1903, 1904, by Causes,*

CAUSES.	DISTRICTS.							Totals.
	1st.	2d	3d	4th	5th	6th	7th	
Blast explosions .....	.....	1	2	.....	.....	1	5	9
Blasts premature.....	1	2	3	4	23	7	3	43
Blown-out shots.....	.....	.....	6	.....	8	8	.....	22
Powder explosions.....	2	.....	3	2	2	3	11	23
Flying coal .....	1	4	.....	6	.....	6	6	23
Falling coal, rock, etc.....	41	17	16	44	27	60	35	240
All other causes.....	18	10	5	44	27	23	24	151
Totals .....	63	34	35	100	87	108	84	511
Percentages.....	12.33	6.65	6.85	19.57	17.02	21.14	16.44	100.00
Percentages by districts.....	25.83			74.17			100.00	

The reading of the percentages of this table reveals that the deaths in our mines range from 6.65 per cent in the second district to 21.14 per cent in the sixth; while grouping the districts it is found that 25.83 per cent of all fatal accidents occurred in the first, second and third, and 74.17 per cent in the fourth, fifth, sixth and seventh. In these last named districts, during the past year, 73.36 per cent of the miners were employed, producing 81 per cent of the coal and using 76 per cent of the powder.

A very thorough and comprehensive article, with a tabulation of the fatal accidents in the United States and Canada, for ten years, 1894 to 1903, prepared by Mr. Frederick L. Hoffman, was published in the *Engineering and Mining Journal*, New York, in its issue of Dec. 22, 1904.

The tables give such complete data of the fatal accidents in coal mines that these these tables are here reproduced.

TABLE 69—*Number of Persons Killed by Accidents in Coal Mines of the United States and Canada--1894-1903.*

	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
Alabama.....	19	38	28	38	45	40	37	41	50	57	383
Colorado.....	19	23	68	35	24	41	29	55	73	44	411
Illinois.....	72	75	77	69	75	84	94	99	99	156	900
Indiana.....	*	23	28	16	22	16	18	24	24	55	226
Indian Ter.....	13	6	12	22	17	25	40	44	60	33	272
Iowa.....	19	20	22	21	26	20	29	26	55	21	229
Kansas.....	26	10	12	6	17	16	22	26	27	36	193
Kentucky.....	10	8	6	12	6	7	17	21	19	*	106
Maryland.....	7	9	6	5	4	5	7	12	11	*	166
Missouri.....	19	13	16	8	9	14	10	15	10	17	131
New Mexico.....	*	28	7	7	7	15	15	9	17	17	122
Ohio.....	45	52	41	40	52	57	68	72	81	114	622
Pennsylvania (anthr.).....	446	421	502	423	411	461	411	513	300	518	4,406
Pennsylvania (bit.).....	122	156	180	150	199	258	265	301	456	402	2,489
Tennessee.....	14	37	22	10	19	20	10	53	226	26	437
Utah.....	*	1	3	3	3	—	209	10	8	7	214
Washington.....	50	35	8	7	9	45	33	27	34	25	273
West Virginia.....	59	83	65	62	90	89	141	130	120	159	906
British Columbia.....	4	10	9	6	7	11	17	102	139	42	347
Nova Scotia.....	13	9	8	7	7	19	21	14	19	31	148
Total deaths.....	957	1,057	1,120	947	1,049	1,243	1,493	1,594	1,828	1,760	13,048

\* No report.

† Total for 1894-1902.

This table gives the total number of persons killed in the coal mines of the several states and Canada for each of the ten years, with the aggregates of all for each year. The total number of deaths is shown to be 13,048; the largest number 1,829, appears for the year 1902, while the smallest, 947, is shown for 1897.

next exhibit gives these fatal accidents, for all the years, by rates per 1,000 persons employed:

*70—Fatal Accidents in Coal Mining in the United States and Canada—1894-1903.*

	NUMBER OF PERSONS KILLED PER 1,000 EMPLOYED.										
	1894.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	Total
.....	2.13	4.61	2.83	3.07	4.55	3.10	2.59	2.90	2.79	2.94	3.07
.....	3.06	3.05	10.07	4.99	3.23	5.60	3.99	6.88	8.11	4.27	5.35
.....	2.21	2.35	2.33	2.04	2.14	2.27	2.39	2.24	2.15	3.13	2.35
.....	*	2.92	3.94	2.00	2.63	2.07	1.82	1.98	1.83	3.64	2.53
er.....	3.95	1.64	3.26	6.34	4.82	6.24	7.59	8.35	9.62	5.42	6.11
.....	1.85	1.82	2.62	2.45	3.38	2.49	2.22	1.97	4.23	1.59	2.44
.....	2.58	1.11	1.36	0.71	1.95	1.57	2.06	2.28	2.70	3.61	2.03
.....	1.25	1.02	0.79	1.55	0.67	0.83	2.06	2.14	1.58	*	†1.35
l.....	1.69	2.30	1.58	1.17	0.89	1.08	1.32	2.23	1.99	*	†1.59
.....	2.49	1.84	2.43	1.22	1.22	1.80	1.31	1.63	1.09	1.85	1.67
xico.....	*	16.88	4.87	5.13	3.71	7.98	7.44	4.81	10.11	7.26	7.56
.....	1.43	1.79	1.44	1.39	1.77	2.03	2.14	2.15	2.16	2.75	1.95
ania (anthr.).....	3.19	2.93	3.35	2.83	2.89	3.28	2.86	3.47	2.03	3.41	3.02
ania (bit.).....	1.44	1.83	2.14	1.72	2.27	2.82	2.43	2.56	3.37	2.65	2.41
e.....	2.53	7.23	3.37	1.58	2.43	2.60	1.15	6.10	25.80	2.69	5.84
.....	*	1.49	4.35	4.17	4.38	—	138.96	5.81	3.24	3.21	20.75
ton.....	14.79	12.38	2.98	2.48	2.70	13.60	7.79	5.59	7.83	5.13	7.45
ginia.....	2.98	3.97	2.68	2.89	3.86	3.55	5.03	4.01	3.78	4.03	3.75
olumbia.....	1.37	3.42	3.27	2.47	2.34	2.91	4.22	25.67	34.65	9.85	10.18
stia.....	2.41	1.55	1.33	1.35	1.56	3.39	3.17	1.83	2.36	2.79	2.25
.....	2.48	2.67	2.79	2.34	2.59	2.98	3.24	3.24	3.49	3.19	2.94

report. † Average rate for 1894-1902.

average rate here shown for the ten years is 2.94 per 1,000 persons employed; this rate is less than is shown for any year since

The fatal accidents for the State for 22 years is shown in the following table; arranged by districts showing the number killed by falls and by other causes:

TABLE 71—*Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for 22 Years.*

YEAR.	DISTRICT.														Total from falls in mines.	Total from other causes.	Total deaths.
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.				
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.			
1883.....	7	72	1	....	13	5	11	5	8	12	....	....	....	....	40	94	134
1884.....	6	5	5	1	8	4	4	5	6	2	....	....	....	....	29	17	46
1885.....	6	4	....	3	2	4	9	4	3	4	....	....	....	....	20	19	39
1886.....	9	5	3	3	5	6	8	1	7	5	....	....	....	....	32	20	52
1887.....	10	4	3	2	3	2	2	1	10	4	....	....	....	....	28	13	41
1888.....	16	3	1	4	5	5	5	3	6	7	....	....	....	....	33	22	55
1889.....	8	6	1	2	3	3	6	2	8	3	....	....	....	....	26	16	42
1890.....	15	1	1	4	8	2	5	6	7	4	....	....	....	....	36	17	53
1891.....	10	5	2	2	4	5	6	11	9	....	....	....	....	....	33	27	60
1892.....	8	2	1	....	5	6	5	16	6	5	....	....	....	....	28	29	57
1893.....	15	2	3	2	8	4	6	4	16	9	....	....	....	....	48	21	69
1894.....	13	6	5	4	5	5	10	9	10	5	....	....	....	....	43	29	72
1895.....	8	8	7	5	7	9	7	8	9	7	....	....	....	....	38	37	75
1896.....	14	4	4	7	3	1	8	6	3	13	4	....	5	5	41	36	77
1897.....	8	3	4	5	3	1	10	....	11	8	8	3	2	3	46	23	69
1898.....	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75
1899.....	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84
1900.....	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94
1901.....	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99
1902.....	9	6	5	2	5	1	10	10	5	12	13	6	8	7	55	44	99
1903.....	14	10	6	5	3	6	22	8	7	19	15	17	12	12	79	77	156
1904.....	11	2	3	4	7	9	15	14	13	14	22	13	8	22	78	79	157
22 years.....	223	160	71	77	103	89	206	129	169	177	99	65	65	72	935	770	1,705
Averages.....	10.1	7.3	3.2	3.5	4.2	4.0	4.8	5.4	7.7	8.0	*11.	*7.2	*7.2	*8.0	43.4	35.0	77.5
Percentages.....	58.2	41.8	48.0	52.0	53.7	46.4	61.5	38.5	48.8	51.2	60.4	39.6	47.5	52.6	54.8	45.2	100.00

\* Nine years.

Directing attention to the totals for all the years, it will be seen that 1,705 have been killed, and of this number 935 or 54.84 per cent have met death from falling roof and sides in the mines.

of the five districts covering the series of years, the fourth, first third, in the order named, show much the largest percentages of deaths from falls. The record for the sixth and seventh districts is nine years; the sixth shows over 60 per cent from falls during the nine years. Table 71 has been reduced to percentages and is shown as follows:

TABLE 72—*Percentages of Fatal Accidents Caused by Falling from Roof or Sides, for Twenty-two Years, by Districts.*

YEAR.	DISTRICT.							THE STATE.	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1880	8.9	100	82.4	62.5	40	.....	.....	134	30
1881	27.3	83.3	66.7	44.4	75	.....	.....	46	56.5
1882	60	.....	33.3	69.2	43	.....	.....	39	51.3
1883	64.3	50	45.5	89	58.3	.....	.....	52	61.5
1884	71.4	60	60	66	71.4	.....	.....	41	68.3
1885	84.2	20	50	62.5	46.2	.....	.....	55	60
1886	57.1	33.3	50	75	72.7	.....	.....	42	62
1887	93.8	20	80	45.5	63.6	.....	.....	73	67.9
1888	66.7	50	44.4	50	55	.....	.....	60	55
1889	80	100	45.5	33.3	54.5	.....	.....	57	49.1
1890	88.2	60	66.6	60	64	.....	.....	69	69.6
1891	68.4	44.4	50	52.6	66.6	.....	.....	72	58.3
1892	50	58.3	43.75	46.67	56.3	.....	.....	75	50.7
1893	77.8	36.4	75	57.1	18.8	100	50	77	53.3
1894	72.7	44.4	75	100	57.9	72.7	40	69	66.7
1895	66.7	50	25	79	60	50	41.2	75	58.1
1896	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
1897	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
1898	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
1899	60	71.43	83.33	50	29.41	68.42	53.33	99	55.55
1900	58.33	54.55	33.33	73.33	26.92	46.88	50	156	50.64
1901	84.61	42.86	43.75	51.72	48.15	62.86	26.66	157	49.68
1902	58.22	48.00	53.65	61.49	48.84	*60.37	*47.45	1,705	54.84

nine years.

This table shows an average for the 22 years of 54.84 per cent.

The occupations and conjugal relations of the killed for the year are given by districts in the following table:

TABLE 73—*Occupation and Conjugal Relation of the Killed.*

Number.	OCCUPATION.	DISTRICTS AND NUMBER OF FATAL CASUALTIES IN EACH.							Total number killed.	CONJUGAL RELATION.			
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		Married.	Single.	Widows.	Children-Depend-ents.
1	Brakeman .....				1				1		1		
2	Cagers .....				1				1	1		1	5
3	Carpenters .....					1			1	1		1	5
4	Drivers .....	1	1	4	3	2	4	5	20	7	13	6	10
5	Engineers .....				1	1		1	3	3		1	5
6	Examiner .....							1	1	1		1	2
7	Laborers .....				2	2	2	1	7	5	2	3	14
8	Loaders .....			1					1		1		
9	Machinists .....		1					1	2	1	1	1	5
10	Machine helpers .....					1	2		3	2	1	2	4
11	Machine runners .....						2		2	1	1	1	
12	Miners .....	12	5	10	17	16	21	17	98	64	34	61	163
13	Mine manager .....							1	1	1		1	2
14	Pumpman .....							1	1	1		1	1
15	Shot firers .....			1		1			2	2		2	5
16	Sinkers .....				2	1		1	4	3	1	2	5
17	Spragger .....							1	1		1		
18	Teamster .....							1	1	1		1	5
19	Timberman .....							1	1		1		
20	Top boss .....					1			1	1		1	1
21	Trappers .....				1	1		2	4		4		
22	Weighman .....				1				1	1		1	8
	Totals .....	13	7	16	29	27	35	30	157	96	61	87	239

Here are shown 22 distinct occupations represented by the 157 deaths occurring during the year. It will be seen that much the largest number of deaths came to miners; however, they constitute a very large proportion of the employes at all mines. This year the figures show 98 or 62.42 per cent of the killed to be miners. Drivers show the next largest number killed; 20 or 12.74 per cent engaged in this occupation lost their lives.

For the year 87 wives were made widows and 239 children were left fatherless; some of the latter, however, were of mature years and not dependent.

The final column of the table gives the dependents, the total being 296 left in the communities where the accidents occurred.

NON-FATAL ACCIDENTS.

This class of accidents for the year is shown in the following table:

TABLE 74—*Non-Fatal Accidents, by Districts—1904.*

DISTRICT.	Number of men injured.	EMPLOYED.		NUMBER EMPLOYED.		Total number of employes.	Total tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal mined to one man injured.
		Under ground.	Above ground.	Under ground.	Above ground.					
First.....	70	70	.....	7,367	671	8,038	3,450,315	115	8.71	49,290
Second.....	96	90	6	6,788	574	7,362	3,322,490	77	13.04	34,609
Third.....	9	9	.....	4,321	487	4,808	3,058,414	534	1.87	339,824
Fourth.....	111	107	4	6,591	702	7,293	5,142,786	66	15.22	46,331
Fifth.....	56	54	2	8,565	976	9,541	7,280,287	170	5.87	130,005
Sixth.....	81	76	5	8,665	1,000	9,665	8,634,726	119	8.35	106,602
Seventh.....	84	76	8	7,064	1,003	8,067	6,188,879	96	10.41	73,796
The State.....	507	482	25	49,361	5,413	54,774	37,077,897	108	9.26	73,132

The total number injured was 507; these sustained a loss of 30 days or more of time. Of the total number 482 or 95 per cent were injured under ground.

The rate this year is 9.26 per 1,000 employed. This class of accidents occurring in the mines of the State, combined with the total number of employes and tons, for 22 years, is shown in the following table:



TABLE 75—*Non-Fatal Accidents for Twenty-two Years.*

YEAR.	Number of men injured.	Total number of employes.	Total number of tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal produced to one man injured.
1883.....	231	23,989	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,446	11,834,459	145	6.9	67,541
1886.....	171	25,846	11,175,231	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,062,276	91	11.0	46,114
1893.....	403	35,390	19,949,564	88	11.4	49,308
1894.....	521	32,635	17,113,576	63	16.0	32,846
1895.....	605	31,962	17,735,864	53	18.9	29,315
1896.....	672	33,054	19,786,626	49	20.3	29,444
1897.....	518	33,788	20,072,758	65	15.3	33,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,168
1901.....	422	44,143	26,635,319	104.6	9.56	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
1904.....	507	54,774	37,077,897	108	9.26	75,132
Average 22 years .....	385	34,323	19,392,884	89	11.22	50,335

Previous to the report of 1901, the non-fatal accidents were returned for all those losing one week or more of time, since then only those losing 30 days or more have been returned. The total number of this class of accidents, reported for the last 22 years, has been 8,476 or an average of 385 for each year; this is one for every 89 men employed, or a rate of 11.22 per 1,000 employes, and one for every 50,335 tons produced.

occupations of those injured in the mines is shown in the following, by districts:

*Non-Fatal Accidents by Occupation and Districts with Totals and Percentages.*

OCCUPATION.	DISTRICTS.							Totals.	Percentages.
	First.	Second	Third.	Fourth	Fifth.	Sixth.	Seventh.		
Driver.....		1						1	0.20
.....	1	1		1	3	3		9	1.78
.....				1			4	5	0.99
Men.....		9		1				10	1.97
.....	9	15	1	22	16	22	22	107	21.10
.....							1	1	0.20
.....				2				2	0.39
.....				3	6	4	2	15	2.96
.....					5	3		8	1.58
Helpers.....					2	2		4	0.79
Runners.....				2		2	1	5	0.99
.....	57	63	7	69	17	35	41	289	57.00
Agents.....						2	1	3	0.59
.....	3				1			4	0.78
.....				3				3	0.59
.....					2	1		3	0.59
.....			1					1	0.20
.....				1		1		2	0.39
Men.....				3	4	3	2	12	2.37
.....		1						1	0.20
.....		3					3	6	1.18
.....						1		1	0.20
.....		2		2			4	8	1.58
.....		1		1		2	2	6	1.18
Other.....							1	1	0.20
.....	70	96	9	111	56	81	84	507	100.00
Percentages....	13.79	18.94	1.78	21.89	11.05	15.98	16.57	100.00	

giving attention to the last column in the table, it will be seen that the figures properly represent 57 per cent of the total numbers in the mines and that the drivers in the mines account for 21 per cent.

TABLE 78—Causes of Non-Fatal Accidents, by Districts.

Table 78—Concluded.

CAUSE.	DISTRICT.							The State.	Percentage.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Seventh.		
, boiler.....						1		1	0.20
, gas.....	2						1	3	0.59
, powder.....		3	3	4	5	2	12	29	5.71
bal and other.....		4		3		4	5	16	3.15
al, clod, rock,.....	51	61	4	72	19	37	20	264	52.07
wn shaft.....					1	2		3	0.59
o hopper.....							1	1	0.20
m scaffold.....							1	1	0.20
.....					3			3	0.59
l.....		2		3		3	4	12	2.37
el and iron.....	1	1			1			3	0.59
.....					1	1	2	4	0.78
.....	1			1	1	2	1	6	1.18
.....							1	1	0.20
.....	14	21		21	20	21	28	123	24.26
blast.....			2				3	5	0.99
ars.....		1				3	1	5	0.99
.....				1				1	0.20
k (lifting).....							1	1	0.20
.....							1	1	0.20
.....				1				1	0.20
.....		2						2	0.39
.....				1			1	2	0.39
.....	70	96	9	111	56	81	84	507	100.00

disclosed 32 distinct causes resulting in the injuring of the employees. The last column of the table gives the percentages of the different causes and shows that falling roof and sides in the mines were responsible for 52.07 per cent of all the causes, while pit-cars represented .26 per cent; these two columns accounting for 76.33 per cent of all causes, leaving 23.67 per cent as representing the other 30 causes. The number injured directly traceable to the use of powder was 53 or 10.45 per cent.

The non-fatal accidents for a series of 22 years, is shown as follows:

TABLE 79—*Non-Fatal Accidents from Falling Roof and Sides, and Other Causes, with Percentages Caused by Falling Roof—22 Years.*

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes.	Per cent caused by falling roof or sides.		Total.	Falling roof and sides.	All other causes.	Per cent caused by falling roof or sides.
1883 .....	231	130	101	56.28	1895 .....	605	338	267	55.87
1884 .....	197	135	62	68.53	1896 .....	672	373	299	55.51
1885 .....	176	118	58	67.00	1897 .....	518	310	208	59.85
1886 .....	171	109	62	63.74	1898 .....	438	252	186	60.07
1887 .....	180	124	56	68.88	1899 .....	597	335	262	56.12
1888 .....	179	112	67	62.58	1900 .....	611	323	288	52.86
1889 .....	201	129	72	64.17	1901 .....	422	233	189	55.21
1890 .....	294	196	98	66.66	1902 .....	406	198	208	48.77
1891 .....	367	227	140	61.85	1903 .....	410	190	220	46.34
1892 .....	370	234	136	63.25	1904 .....	507	264	243	52.07
1893 .....	403	254	149	63.03					
1894 .....	521	294	227	56.43	Totals ...	8,476	4,878	3,598	57.55

This table divides these accidents into two classes; those caused by falling roof and sides, and those brought about by all other causes. The final column shows the percentages for each year caused by falling roof and sides.

For the 22 years the record is that 4,878 or 57.55 per cent of the whole number of non-fatal accidents was caused by falling roof and sides in the mines.

This percentage is larger than for any one year since 1898.

A comparative table follows, giving the total number of the killed and injured for a series of 22 years, also the percentages caused by falling roof and sides.

*—Total Number Killed and Injured, with Percentages  
Accidents Caused by Falling Roof or Sides for 22 Years,*

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
.....	134	231	365	30	56.28	47.7
.....	46	197	243	56.5	68.53	66.25
.....	39	176	215	51.3	67	64.18
.....	52	171	223	61.5	63.74	63.23
.....	41	180	221	68.3	68.88	68.77
.....	55	179	234	60	62.58	61.97
.....	42	201	243	61.9	64.17	63.78
.....	53	294	347	67.9	66.66	66.86
.....	60	367	427	55	61.85	60.88
.....	57	370	427	49.1	68.25	61.36
.....	69	403	472	69.6	63.03	63.98
.....	72	521	593	58.3	56.43	56.82
.....	75	605	680	50.7	55.87	55.59
.....	77	672	749	53.3	55.51	55.27
.....	69	518	587	66.7	59.85	60.65
.....	75	438	513	57.33	60.87	60.34
.....	84	597	681	60.71	56.12	56.68
.....	94	611	705	54.3	52.86	53.1
.....	99	422	521	56.43	55.21	55.45
.....	99	406	505	55.55	48.77	50.1
.....	156	410	566	50.64	46.34	47.53
.....	157	507	664	49.68	52.07	51.51
Two years .....	1,705	8,476	10,181	54.84	57.55	57.10

ng attention to the column of percentages, it will be seen number killed each year by falling roof and sides is equivalent to 57.10 per cent for this term of years. This year shows 49.68 per cent from these causes; only two other years, 1883 and 1892, show more than 50 per cent. Eight of these years the number was over 60 per cent and in 1893 it was 70 per cent. As to the percentages of accidents from the same causes this year it is 52.07 per cent, and for the previous years 57.55 per cent.

For the previous years show less than 50 per cent, while for 11 years the number was over 60 per cent.

The final column shows the percentage of both the killed and injured; for the series of years shown it was 57.10 per cent; last year and 1883 are the only years showing less than 50 per cent. The reading of the three final columns of the table will show the remarkably slight variation in these percentages.

The record of the increase or decrease in the number of employes, tons raised, and the killed and injured, is continued and shown by percentages for 22 years in the following table:

TABLE 81—*Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured for a Series of Twenty-two Years.*

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.72
1885 .....	.....	0.5	.....	3.06	.....	15.22	.....	10.66
1886 .....	1.57	.....	.....	5.57	33.33	.....	.....	2.34
1887 .....	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888 .....	9.72	.....	15.34	.....	34.15	.....	.....	0.56
1889 .....	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890 .....	.....	5.00	8.97	.....	26.2	.....	46.27	.....
1891 .....	15.31	.....	2.53	.....	13.2	.....	24.83	.....
1892 .....	2.07	.....	8.95	.....	.....	5.00	0.82	.....
1893 .....	5.23	.....	16.91	.....	21.05	.....	8.92	.....
1894 .....	.....	7.78	.....	14.22	4.35	.....	29.28	.....
1895 .....	.....	2.06	3.64	.....	4.17	.....	16.12	.....
1896 .....	3.42	.....	11.56	.....	2.67	.....	11.07	.....
1897 .....	2.22	.....	1.45	.....	.....	10.4	.....	8.04
1898 .....	3.66	.....	.....	7.34	8.7	.....	.....	15.44
1899 .....	5.61	.....	26.00	.....	12.00	.....	36.3	.....
1900 .....	6.47	.....	7.34	.....	1.19	.....	2.35	.....
1901 .....	12.1	.....	5.88	.....	7.4	.....	.....	30.9
1902 .....	4.21	.....	12.71	.....	7.4	.....	.....	3.8
1903 .....	8.28	.....	16.44	.....	57.58	.....	0.99	.....
1904 .....	1.00	.....	6.07	.....	0.64	.....	23.66	.....

For this year the men employed increased only 1 per cent, tons produced 6.07 per cent, the number killed 0.64 per cent and the number injured 23.66 per cent.

## RECAPITULATIONS.

The final showing for the year is summed up in six recapitulation tables, giving by districts all the essential information reported concerning the industry by the several inspectors.

TABLE 82—*The State—Recapitulation by Districts—Shipping and Local Mines, Counties and Production—1904.*

DISTRICTS AND MINES.	Counties.	Number of mines.	Total tons of coal produced.	GRADED PRODUCT—TONS OF—					
				Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First .....	5	88	3,450,315	400,933	1,958,400	246,530	103,694	687,081	53,677
Shipping ...	5	41	3,322,268	353,402	1,902,003	243,003	101,709	673,503	48,648
Local .....	4	47	128,047	47,531	56,397	3,527	1,985	13,578	5,029
Second .....	8	171	3,322,490	248,320	2,402,619	11,664	28,176	524,250	107,461
Shipping ...	7	28	3,036,066	248,200	2,151,084	11,664	26,004	491,643	107,461
Local .....	8	143	286,424	120	251,535	.....	2,172	32,607	.....
Third .....	8	238	3,058,414	780,251	1,572,778	108,702	179,127	302,090	135,466
Shipping ...	6	55	2,707,067	699,264	1,298,998	108,702	178,827	287,897	133,379
Local .....	8	183	351,347	60,987	273,780	.....	300	14,193	2,087
Fourth .....	8	96	5,142,786	3,296,049	1,092,281	77,853	157,092	378,516	140,965
Shipping ...	7	46	4,901,660	3,181,689	1,003,882	77,213	145,441	356,775	136,660
Local .....	4	50	241,126	114,360	88,399	640	11,651	21,741	4,335
Fifth .....	9	102	7,280,287	1,714,991	3,555,651	113,434	219,322	1,475,917	200,972
Shipping ...	3	53	7,177,268	1,683,152	3,508,554	113,434	218,602	1,464,814	193,712
Local .....	8	49	103,019	31,839	52,097	.....	720	11,103	7,260
Sixth .....	5	117	8,634,728	2,346,064	4,418,919	59,868	253,938	1,290,060	265,877
Shipping ...	5	84	8,530,028	2,298,155	4,370,758	59,868	251,024	1,284,346	265,877
Local .....	2	33	104,698	47,909	48,161	.....	2,914	5,714	.....
Seventh .....	11	120	6,188,879	1,861,296	1,887,362	396,649	661,034	1,093,656	288,882
Shipping ...	8	73	6,105,170	1,805,423	1,866,724	394,788	659,615	1,091,661	286,959
Local .....	9	47	83,709	55,873	20,638	1,861	1,419	1,995	1,923
The State .....	54	932	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330
Shipping ...	41	380	35,779,517	10,269,285	16,097,003	1,008,672	1,581,222	5,650,639	1,172,696
Local .....	43	552	1,298,380	358,619	791,007	6,028	21,161	100,931	20,634



TABLE 83—*The State—Recapitulation by Districts—Value of Different Grades of Coal.*

DISTRICTS AND MINES.	Aggregate value of total product.	AGGREGATE VALUE OF THE DIFFERENT GRADES OF COAL AT THE MINES.					
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	\$5,057,341	\$689,144	\$3,400,025	\$432,650	\$151,507	\$368,810	\$15,005
Shipping.....	\$4,811,973	\$605,289	\$3,259,692	\$426,546	\$149,323	\$367,653	\$13,471
Local.....	245,368	83,855	140,334	6,304	2,184	11,157	1,534
Second.....	\$4,916,565	\$372,766	\$4,052,428	\$20,179	\$38,616	\$356,813	\$75,768
Shipping.....	\$4,417,108	\$372,586	\$3,574,434	\$20,179	\$35,104	\$339,042	\$75,768
Local.....	499,457	180	477,994	.....	3,512	17,771	.....
Third.....	\$3,832,202	\$890,032	\$2,327,175	\$166,013	\$197,488	\$175,464	\$76,089
Shipping.....	\$3,302,085	\$814,408	\$1,880,893	\$166,013	\$197,113	\$168,651	\$75,007
Local.....	530,117	75,624	446,282	.....	375	6,813	1,022
Fourth.....	\$5,590,566	\$3,380,360	\$1,656,661	\$109,236	\$179,543	\$231,311	\$33,496
Shipping.....	\$5,244,615	\$3,244,199	\$1,482,860	\$108,212	\$161,829	\$215,717	\$31,798
Local.....	345,951	136,161	173,801	1,024	17,714	15,594	1,697
Fifth.....	\$7,594,588	\$1,752,991	\$4,468,964	\$138,774	\$246,820	\$693,580	\$93,463
Shipping.....	\$7,424,490	\$1,694,508	\$4,372,480	\$138,774	\$246,100	\$682,799	\$89,829
Local.....	170,098	58,483	96,484	.....	720	10,781	3,634
Sixth.....	\$7,797,173	\$2,101,758	\$1,905,566	\$67,854	\$195,783	\$507,925	\$18,281
Shipping.....	\$7,645,443	\$2,035,082	\$4,826,448	\$67,854	\$191,549	\$505,223	\$18,287
Local.....	151,730	66,676	79,118	.....	4,234	1,702	.....
Seventh.....	\$5,985,787	\$1,762,016	\$2,296,120	\$473,690	\$672,744	\$695,101	\$36,116
Shipping.....	\$5,880,266	\$1,694,228	\$2,265,642	\$470,662	\$670,970	\$693,659	\$35,106
Local.....	105,521	67,788	30,478	3,028	1,774	1,442	1,010
The State.....	\$40,774,222	\$10,949,067	\$23,106,939	\$1,406,596	\$1,682,501	\$3,229,004	\$396,116
Shipping.....	\$38,725,980	\$10,460,300	\$21,662,448	\$1,398,240	\$1,651,988	\$3,163,744	\$389,286
Local.....	2,048,242	488,767	1,444,491	10,356	30,513	65,260	8,830

TABLE 84—*The State—Recapitulation by Districts, Disposition of the Output—1904.*

DISTRICTS AND MINES.	DISTRIBUTION OF OUTPUT—TONS.			
	Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.
.....	2,781,845	170,746	263,620	284,104
ipping .....	2,781,845	170,746	178,025	241,652
cal.....	.....	.....	85,595	42,452
nd.....	2,768,018	52,361	372,606	129,508
ipping .....	2,768,018	52,361	92,730	122,947
cal.....	.....	.....	279,878	6,556
d.....	2,518,158	29,920	422,978	87,358
ipping .....	2,518,158	29,920	73,518	85,471
cal.....	.....	.....	349,460	1,887
th.....	4,204,553	202,776	511,611	223,846
pping.....	4,204,553	202,776	300,883	193,448
al.....	.....	.....	210,728	30,398
.....	6,389,700	197,537	423,554	269,496
pping.....	6,389,700	185,141	338,686	263,741
al.....	.....	12,396	84,868	5,755
.....	7,678,710	307,284	306,337	342,395
pping.....	7,678,710	307,284	206,507	337,527
cal.....	.....	.....	99,830	4,868
nth.....	5,487,276	262,475	220,904	218,224
ipping.....	5,487,276	239,103	169,783	209,206
ocal.....	.....	23,372	51,121	9,216
State.....	31,778,260	1,223,099	2,521,612	1,554,926
ipping.....	31,778,260	1,187,331	1,360,132	1,453,794
ocal.....	.....	35,768	1,161,480	101,132

TABLE 85—*The State—Recapitulation by Districts, Hand and Machine Mining, Prices Paid, Machines—1904.*

DISTRICTS AND MINES.	TONS MINED BY—		AVERAGE PRICE PAID PER TON FOR—		MACHINES.		Pow- der con- sumed.
	Hand.	Machine.	Hand mining.	Machine mining.	Number of mines using.	Number in use.	
First.....	3,450,315	.....	\$0.7885	.....	.....	.....	37,68
Shipping.....	3,322,268	.....	\$0.7863	.....	.....	.....	37,68
Local.....	128,047	.....	0.7925	.....	.....	.....	.....
Second.....	3,322,490	.....	\$0.7905	.....	.....	.....	45,60
Shipping.....	3,036,056	.....	\$0.7759	.....	.....	.....	37,94
Local.....	286,434	.....	0.946	.....	.....	.....	7,70
Third.....	3,058,414	.....	\$0.6267	.....	.....	.....	137,93
Shipping.....	2,707,067	.....	\$0.6067	.....	.....	.....	124,24
Local.....	351,347	.....	0.781	.....	.....	.....	13,71
Fourth.....	4,991,466	151,320	\$0.5642	\$0.4438	6	49	133,21
Shipping.....	4,750,340	151,320	\$0.5605	\$0.4438	6	49	127,67
Local.....	241,126	.....	0.637	.....	.....	.....	5,53
Fifth.....	4,964,218	2,316,069	\$0.5527	\$0.4725	16	156	213,40
Shipping.....	4,870,791	2,306,477	\$0.5473	\$0.4725	14	152	210,72
Local.....	93,427	9,592	0.8387	0.50	2	4	2,76
Sixth.....	4,997,494	3,637,232	\$0.5372	\$0.4749	32	333	186,71
Shipping.....	4,892,796	3,637,232	\$0.5352	\$0.4749	32	333	186,02
Local.....	104,698	.....	0.6283	.....	.....	.....	2,61
Seventh.....	5,153,073	1,035,806	\$0.4956	\$0.4209	13	85	166,73
Shipping.....	5,069,364	1,035,806	\$0.4952	\$0.4209	13	85	164,99
Local.....	83,709	.....	0.5202	.....	.....	.....	1,83
The State.....	29,937,470	7,140,427	\$0.6042	\$0.4659	67	623	920,63
Shipping.....	28,648,682	7,130,835	\$0.5933	\$0.4659	65	619	896,57
Local.....	1,288,788	9,592	0.7667	0.50	2	4	34,13

TABLE 86—*The State—Recapitulation by Districts, Value of Coal per Ton—1904.*

DISTRICTS AND MINES.	AVERAGE VALUE OF GRADED COAL AT THE MINES.						
	All grades.	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
First.....	\$1.4657	\$1.7188	\$1.7361	\$1.7755	\$1.4611	\$0.537	\$0.2795
Shipping.....	\$1.4484	\$1.7127	\$1.7138	\$1.7753	\$1.4681	\$0.5313	\$0.2769
Local.....	1.9162	1.7642	2.4883	1.787	1.10	0.8217	0.3051
Second.....	\$1.4798	\$1.50	\$1.686	\$1.73	\$1.367	\$0.68	\$0.705
Shipping.....	\$1.4549	\$1.50	\$1.661	\$1.73	\$1.346	\$0.689	\$0.705
Local.....	1.7437	1.50	1.902	.....	1.617	0.545	.....
Third.....	\$31.253	\$1.1664	\$1.4796	\$1.527	\$1.102	\$0.581	\$0.5609
Shipping.....	\$1.2198	\$1.16	\$1.448	\$1.527	\$1.102	\$0.586	\$0.562
Local.....	1.5088	1.24	1.63	.....	1.25	0.48	0.49
Fourth.....	\$1.0871	\$1.0257	\$1.5172	\$1.403	\$1.1434	\$0.611	\$0.238
Shipping.....	\$1.07	\$1.0196	\$1.477	\$1.401	\$1.1113	\$0.605	\$0.233
Local.....	1.4347	1.195	1.974	1.80	1.524	0.714	0.383
Fifth.....	\$1.0432	\$1.0224	\$1.257	\$1.223	\$1.126	\$0.605	\$0.465
Shipping.....	\$1.0872	\$1.007	\$1.248	\$1.223	\$1.126	\$0.602	\$0.464
Local.....	1.6511	1.836	1.852	.....	1.00	0.971	0.50
Sixth.....	\$0.903	\$0.8958	\$1.11	\$1.1334	\$0.771	\$0.3937	\$0.1383
Shipping.....	\$0.8963	\$0.8855	\$1.1042	\$1.1334	\$0.7631	\$0.3941	\$0.1383
Local.....	1.4492	1.3917	1.6427	.....	1.453	0.2977	.....
Seventh.....	\$0.967	\$0.9457	\$1.2157	\$1.1938	\$1.0154	\$0.6425	\$0.3245
Shipping.....	\$0.9629	\$0.9373	\$1.2128	\$1.1917	\$1.0149	\$0.6423	\$0.323
Local.....	1.261	1.2132	1.4767	1.6265	1.25	0.723	0.5257
The State.....	\$1.0999	\$1.0303	\$1.3684	\$1.3899	\$1.0494	\$0.5613	\$0.3336
Shipping.....	\$1.0826	\$1.0186	\$1.3459	\$1.3879	\$1.0441	\$0.5598	\$0.3311
Local.....	1.5775	1.3629	1.8261	1.718	1.4419	0.6466	0.4291

TABLE 87—*The State—Recapitulation by Districts, Employes, Days in Operation—1904.*

DISTRICTS AND MINES.	EMPLOYES.					Average days of operation.	CASUALTIES.	
	Miners.	Others under ground.	Boys under ground.	All above ground.	Total.		Killed.	In-jured.
First .....	5,840	1,307	220	671	8,038	215	13	70
Shipping .....	5,565	1,288	220	625	7,698	227	...	...
Local .....	275	19	.....	46	340	215	.....	.....
Second .....	5,373	1,218	197	574	7,362	188	7	96
Shipping .....	4,657	1,181	196	474	6,508	231	.....	.....
Local .....	716	37	1	100	854	178	.....	.....
Third .....	3,472	754	95	487	4,808	198	16	9
Shipping .....	2,698	696	85	370	3,849	220	.....	.....
Local .....	774	58	10	117	959	183	.....	.....
Fourth .....	4,967	1,357	287	702	7,293	197	29	111
Shipping .....	4,581	1,311	257	638	6,787	214	.....	.....
Local .....	386	46	10	64	506	181	.....	.....
Fifth .....	6,349	1,943	273	976	9,541	186	27	56
Shipping .....	6,139	1,926	271	925	9,261	202	.....	.....
Local .....	210	17	2	51	280	169	.....	.....
Sixth.....	6,632	1,726	307	1,000	9,665	207	35	81
Shipping .....	6,472	1,705	301	955	9,433	208	.....	.....
Local .....	160	21	6	45	232	205	.....	.....
Seventh .....	5,351	1,507	203	1,003	8,067	202	30	84
Shipping .....	5,182	1,489	201	976	7,848	207	.....	.....
Local .....	169	18	2	27	219	137	.....	.....
The State .....	37,987	9,812	1,562	5,413	54,774	198	157	507
Shipping .....	35,294	9,596	1,531	4,963	51,384	213	.....	.....
Local .....	2,693	216	31	450	3,390	185	.....	.....

## VENTILATING FANS AT COAL MINES.

ventilation in mines is considered one of the most important in connection with coal mining; the improvements in this lar have been gradual but very complete.

year is the first that any attempt has been made to collect the statistics on the subject of fans in use at the mines in the

following table presents the record by districts, giving the of the operators; the location of the mines, the number of em-underground at each mine; the size and capacity in cubic feet fan; also the name of the fans.

TABLE 88—*Ventilating Fans at Illinois Coal Mines—1904.*

## FIRST DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Il. & Ver. Coal Co., No. 1.	So. Wilm'gt'n	566	18	75,000	Crawford & McCrimmon
Il. & Ver. Coal Co., No. 2.	So. Wilm'gt'n	361	15	60,000	Crawford & McCrimmon
Co. Car. Coal Co., Union	La Salle.....	345	14	75,000	H. Wood .....
Co. Car. Coal Co., No. 1.	LaSalle .....	340	14	100,000	Home made .....
Il. & Ver. Coal Co., No. 2.	Streator.....	313	10	70,000	Cyclone .....
Coal M'g & Mfg. Co., No. 4.	Diamond ....	298	15	80,000	Crawford & McCrimmon
Co. Car. C. Co., Rockwell	LaSalle .....	292	8	65,000	Kangley .....
ur Wil. Coal Co., No. 3.	Coal City.....	288	12	75,000	Crawford & McCrimmon
Co. Car. C. Co., LaSalle..	LaSalle .....	282	14	70,000	Guibal .....
ille Coal Co., No. 5.....	Braceville ....	280	14	50,000	Guibal .....
& Cavanaugh, No. 5.....	Carbon Hill ..	272	8	60,000	Cyclone .....
Coal Co.....	Streator .....	267	8	50,000	Cyclone .....
Coal M'g. & Mfg. Co., No. 5	Diamond ....	256	15	125,000	Crawford & McCrimmon
y Coal Co.....	Oglesby .....	252	11	100,000	Capell .....
il. & Ver. Coal Co., No. 1.	Streator .....	239	8	65,000	Cyclone .....
al Co., No. 2 .....	Kangley .....	224	10	60,000	Cyclone .....
Hakes .....	Rutland.....	210	16	50,000	Kangley .....
ar Coal Co., No. 6.....	Coal City ....	207	10	60,000	Guibal .....
r Wil. Coal Co., B.....	Clark City....	182	16	50,000	Crawford & McCrimmon
ur Wil. Coal Co. No. 2...	Coal City ....	179	12	75,000	Crawford & McCrimmon
ar Mining Co., No. 5 .....	Coal City ....	170	14	80,000	Guibal .....
mes Cahill .....	Peru .....	158	15	40,000	Crawford & McCrimmon

Table 88—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name.
23	Cardiff Coal Co., No. 2 .....	Cardiff .....	138	14	100,000	Wm. Bagley & Sons .....
24	Taylor & Cavanaugh, No. 4 .....	Carbon Hill ..	137	12	75,000	Crawford & McCrimmon ..
25	Illinois Zinc Co. ....	Peru .....	119	15	60,000	Crawford & McCrimmon ..
26	Big Four Wil. Coal Co., No. 6 .....	Eileen .....	107	16	125,000	Crawford & McCrimmon ..
27	Joliet-Wilmington Coal Co. ....	Braidwood .....	92	8	25,000	Erie .....
28	Mattheissen & Hegeler Zinc Co. ....	LaSalle .....	86	10	50,000	Home made .....
29	Murphy Keenan & Co. ....	Braidwood .....	74	8	25,000	Cole .....
30	Rixon Coal Co. ....	Braidwood .....	72	16	75,000	Crawford & McCrimmon ..
31	Marseilles Coal & Mining Co. ....	Marseilles .....	69	10	10,000	Not given .....
32	Beggs, Davis & Co. ....	Fairbury .....	33	8	25,000	Parker .....
33	North Wil. Coal Co., No. 1 .....	Seneca .....	27	3	10,000	Not given .....
34	Wil. Star Mining Co., No. 7 .....	Coal City .....	24	20	150,000	Guibal .....
35	Brady Coal Co. ....	Pontiac .....	20	6	15,000	Not given .....
36	Streator Clay Mfg. Co. ....	Streator .....	15	14	40,000	Crawford & McCrimmon ..
37	Espley & Handwerk .....	Morris .....	10	6	10,000	Not given .....
38	J. K. Telfer .....	Morris .....	10	5½	8,000	Not given .....
39	Star Coal Co., No. 4 .....	Kangley .....	10	6	10,000	Cyclone .....

## SECOND DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name.
1	Spring Valley Coal Co. No. 2 ...	Spring Valley	740	12½	150,000	Capell .....
2	Spring Valley Coal Co. No. 1 ...	Spring Valley	710	12½	150,000	Capell .....
3	Spring Valley Coal Co. No. 3 ...	Spring Valley	707	12½	150,000	Capell .....
4	Devlin Coal Co. ....	Toluca .....	586	20	100,000	Duncan .....
5	Illinois 3d Vein Coal Co. No. 1 ..	Ladd .....	527	12½	150,000	Capell .....
6	Marquette 3d Vein Coal Co. No. 1	Marquette ....	475	12	60,000	Brunner .....
7	Spring Valley Coal Co. No. 4 ...	Seatonville ...	461	10	75,000	Murphy .....

Table 88—Continued.

SECOND DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Valley Coal Co. No. 5 ..	Spring Valley	433	8	60,000	Murphy .....
Coal Co. No. 3 .....	Gilchrist .....	257	12	50,000	Frost Mfg. Co .....
Coal Co. No. 1 .....	Wenona .....	240	20	150,000	Duncan .....
Valley Mining Co. No. 2 ..	Sherrard .....	202	16	60,000	Home made.....
Coal Co. No. 2.....	Wanlock.....	135	16	50,000	Crawford & McCrimmon
Coal Co. No. 4.....	Wanlock.....	106	12	50,000	Crawford & McCrimmon
Kewanee Coal & Mining Co.	Kewanee .....	95	8	20,000	Cole .....
Valley Mining Co. No 2...	Cable .....	75	18	60,000	Home made.....
ing Coal Co .....	Wyoming ....	42	12	60,000	Ottumwa .....
City Coal Co. No. 1 .....	Yates City....	38	12	20,000	Ottumwa.....
Mining Co. No. 2.....	Carbon Cliff..	38	10	20,000	Barnard & Leas .....
ette Third Vein Coal Co.	Sparland.....	37	10	10,000	Cole .....
ryce & Son.....	Coal Valley ..	27	4	10,000	Barnard & Leas .....
Coal Co. No. 1.....	Galva .....	26	8	15,000	Home made.....
n Coal Co. No. 16 .....	Galva .....	26	8	18,000	Home-made.....
lle Bros.....	Coal Valley ..	25	6	10,000	Home-made.....
n Coal Co. No. 15.....	Galva .....	22	4	6,000	Home-made.....
lynd & Sons.....	Moline .....	18	6	10,000	Home-made.....
ee Mining & Mfg. Co....	Kewanee ....	17	10	20,000	Home-made.....
n & Higbee .....	Wyoming ....	17	8	10,000	Armentrout .....
V. Essex .....	Galesburg ....	15	9	8,000	Home made.....
Fairlie .....	Cambridge ...	11	6	8,000	Home-made.....
Lilliman.....	Cable .....	11	8	10,000	Not given .....
Peterson.....	Cable.....	7	6	8,000	Home made.....



Table 88—Continued.

## THIRD DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name.
1	Monmouth Coal Co., No 1.....	Brereton.....	237	12	50,000	Ottumwa.....
2	Whitebreast Fuel Co. of Ill., E..	Dunfermline..	212	14	125,000	Ottumwa.....
3	Maplewood Coal Co., Blk. Hawk	Peoria.....	193	12	100,000	Buffalo Forge Co.....
4	Wabash Coal Co.....	Athens.....	160	12	45,000	Crawford & McCrimmon
5	Greenview Coal Co.....	Greenview....	140	16	60,000	Crawford & McCrimmon
6	Whitebreast Fuel Co. of Ill., C..	Dunfermline..	122	12	50,000	Ottumwa.....
7	Clark Coal & Coke Co.....	Peoria.....	120	12	60,000	Crawford & McCrimmon
8	Applegate & Lewis.....	Cuba.....	119	12	30,000	Ottumwa.....
9	Norris Coal Mining Co.....	Norris.....	117	14	50,000	Home Made.....
10	Athens Mining Co.....	Athens.....	109	12	50,000	Crawford & McCrimmon
11	Sholl Bros.....	Peoria.....	109	12	50,000	Crawford & McCrimmon
12	Central Coal Mining Co.....	St. David.....	103	12	50,000	Duncan.....
13	Newsam Bros.....	Peoria.....	91	12	50,000	Crawford & McCrimmon
14	East Cuba Coal Co.....	Cuba.....	85	12	30,000	Robinson.....
15	Newsam Bros.....	Peoria.....	78	10	25,000	Crawford & McCrimmon
16	Howarth & Taylor.....	Edwards.....	72	12	50,000	Crawford & McCrimmon
17	Phoenix Coal Co.....	Peoria.....	71	10	50,000	Crawford & McCrimmon
18	Newsam Bros.....	Farmington ..	64	10	25,000	Crawford & McCrimmon
19	Scripps Coal Co.....	Astoria.....	61	10	15,000	Home Made.....
20	Central Coal & Coke Co.....	Elmwood.....	61	12	50,000	Cole.....
21	Tallula Coal Co.....	Tallula.....	57	10	15,000	Crawford & McCrimmon
22	Farmington Coal Co.....	Farmington ..	54	12	50,000	Crawford & McCrimmon
23	Vickery Bros.....	Peoria.....	51	8	15,000	Home Made.....
24	Tazewell Coal Co.....	Pekin.....	51	12	25,000	Crawford & McCrimmon
25	Whitebreast Fuel Co. of Ill., D..	St. David.....	50	12	50,000	Crawford & McCrimmon
26	Canton Union Coal Co.....	Canton.....	50	10	25,000	Crawford & McCrimmon
27	Rippetoe & Rundle.....	Colchester....	50	8	16,000	Not given .....
28	Wohlschlag Co.-Opp. Coal Co.	Peoria.....	50	12	25,000	Home Made.....
29	South Mountain Coal Co.....	Petersburg....	49	12	25,000	Crawford & McCrimmon
30	W. E. Foley.....	Canton.....	44	12	50,000	Eagle Iron Works.....
31	Petersburg Coal Mining Co....	Petersburg....	43	10	25,000	Crawford & McCrimmon
32	Third Vein Coal Co.....	Orchard Mines	42	12	25,000	Crawford & McCrimmon

Table 88—Continued.

THIRD DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
o-Opp. Coal Co.....	Bartonville ...	41	10	25,000	Crawford & McCrimmon
Bros.....	Peoria.....	40	8	12,000	Crawford & McCrimmon
Bros.....	Peoria.....	37	8	12,000	Crawford & McCrimmon
s & Bros.....	Kramm.....	37	10	25,000	Crawford & McCrimmon
wn Coal Co.....	Middletown ..	36	10	25,000	Crawford & McCrimmon
oal Co.....	Petersburg...	31	8	15,000	Cole.....
oal Co.....	Canton.....	31	10	25,000	Crawford & McCrimmon
e Coal & Mining Co...	Peoria.....	31	10	34,000	Home Made.....
Coal Co.....	Peoria.....	30	14	30,000	Home-made.....
mm & Bro.....	Peoria.....	29	12	50,000	Crawford & McCrimmon
al Co.....	Peoria.....	25	7	15,000	Crawford & McCrimmon
nt & Son.....	Peoria.....	24	10	25,000	Not given.....
iver Coal Co.....	Galesburg ...	22	10	25,000	Crawford & McCrimmon
nmings.....	East Peoria ...	21	10	20,000	Home-made.....
Coal Co.....	Peoria.....	17	8	10,000	Home-made.....
Co-Operative Coal Co..	Bartonville...	16	10	20,000	Crawford & McCrimmon
Coal Co.....	Bartonville...	16	10	20,000	Cole.....
& Son.....	Pekin.....	14	12	50,000	Crawford & McCrimmon
erideth.....	Augusta.....	12	8	12,000	Not given.....
& Sneddon.....	Peoria.....	12	12	20,000	Crawford & McCrimmon
Fritz.....	Galesburg....	7	12	40,000	Cole.....
vering & Co.....	Petersburg....	7	6	10,000	Home-made.....
Co.....	Bartonville...	7	8	15,000	Home-made.....
Coal Co.....	Peoria.....	7	12	25,000	Crawford & McCrimmon
oal Co.....	Peoria.....	7	5	8,000	Home-made.....
er & Co.....	East Peoria ...	6	8	15,000	Crawford & McCrimmon
r Bros.....	Pekin.....	6	8	10,000	Home-made.....
n Coal Co.....	East Peoria ...	6	10	25,000	Cole.....
tkinson.....	Colchester....	5	4	10,000	Not given.....
al Co.....	Peoria.....	4	10	20,000	Cole.....

Table 88—Continued.

## FOURTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name of.
1	Kellyville Coal Co. No. 3 .....	Westville .....	436	20	120,000	Crawford & McCrimmon
2	Westville Coal Co. No. 1 .....	Westville .....	420	20	100,000	Crawford & McCrimmon
3	Kellyville Coal Co. Himrod .....	Himrod .....	414	20	256,900	Holmes Bros .....
4	Kellyville Coal Co. No. 2 .....	Kellyville .....	332	12 15	74,000	Crawford & McCrimmon
5	Kellyville Coal Co. No. 4 .....	Westville .....	306	10	200,000	Murphy .....
6	Kellyville Coal Co. Pawnee .....	Westville .....	283	20	70,000	Crawford & McCrimmon
7	Kellyville Coal Co. No. 5 .....	Westville .....	277	7	70,000	Murphy .....
8	Latham Coal Co .....	Lincoln .....	275	12	100,000	Robinson .....
9	Springfield Coal & Mining Co ..	Taylorville ..	248	24	150,000	Duncan .....
10	McLean Co. Coal Co .....	Bloomington ..	248	20	50,000	Not given .....
11	Jones & Adams .....	Catlin .....	232	20	100,000	Crawford & McCrimmon
12	Roanoke Coal Mining Co .....	Roanoke .....	220	12	50,000	Cole .....
13	Penwell Coal Co .....	Pana .....	200	20	100,000	Dixon .....
14	Newbent Coal Co .....	Pana .....	195	16	30,000	Guibal .....
15	Assumption Coal & Mining Co ..	Assumption ..	171	14	60,000	Devlin .....
16	Moweaqua Coal Min. & Mfg. Co ..	Moweaqua ..	164	20	80,000	Litchfield .....
17	Pana Coal Co .....	Pana .....	156	18	30,000	Litchfield .....
18	Manufacturers Fuel Co .....	Pana .....	154	20	30,000	Crawford & McCrimmon
19	Economy Coal Mining Co .....	Danville .....	145	10	50,000	Crawford & McCrimmon
20	Citizens Coal Mining Co .....	Lincoln .....	136	15 1/2	30,000	Crawford & McCrimmon
21	Lincoln Coal Co .....	Lincoln .....	133	12	25,000	Crawford & McCrimmon
22	John O'Connell Coal Co .....	Danville .....	113	12	60,000	Not given .....
23	Consolidated Coal Co .....	Fairmount ..	94	10	28,000	Home made .....
24	Electric Coal Co .....	Danville .....	82	15	80,000	Crawford & McCrimmon
25	Colfax Coal Co .....	Colfax .....	82	10	30,000	Crawford & McCrimmon
26	Westville Coal Co .....	Westville .....	82	20	100,000	Danville .....
27	E. S. Gray .....	Danville .....	44	10	30,000	Crawford & McCrimmon
28	Manufacturers & Consumers Coal Co ..	Decatur .....	35	16	100,000	Duncan .....
29	Home Coal Co .....	Mt. Pulaski ..	32	16	40,000	Crawford & McCrimmon
30	F. W. Davis .....	Muncie .....	30	8	30,000	Crawford & McCrimmon
31	Consumers Coal Co .....	Chenoa .....	26	20	50,000	Crawford & McCrimmon
32	Mauck Bros .....	Danville .....	21	10	50,000	Crawford & McCrimmon

Table 88—Continued.

FOURTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Pros.....	Danville .....	17	4	40,000	Not given .....
Pros.....	Grape Creek ..	16	6	50,000	Champion .....
Pros.....	Findlay .....	16	5	10,000	Home made.....
Pros.....	Colison .....	13	8	30,000	Crawford & McCrimmon
Pros.....	Oakwood .....	12	10	50,000	Crawford & McCrimmon
Coal Co .....	Oakwood.....	10	8	60,000	Champion .....
Coal Co .....	Paris .....	10	10	20,000	Robinson .....
Coal Co .....	Edinburg .....	9	12	60,000	Crawford & McCrimmon
Pros.....	Shelbyville ...	8	8	15,000	Home made.....
Prosangler .....	Danville .....	6	8	40,000	Not given .....

## FIFTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Wilm. & Ver. Coal Co.	Thayer .....	370	20	200,000	Crawford & McCrimmon
Virden Coal Co.....	Virden. ....	355	20	85,000	Duncan. ....
Adams.....	Springfield ..	311	20	150,000	Crawford & McCrimmon
Virden Coal Co., No. 2.	Auburn .....	304	20	200,000	Duncan. ....
al Co.....	Pawnee .....	273	20	180,000	Litchfield .....
Coal Co., No. 6.....	Divernon .....	241	22	150,000	Home made.....
ted Coal Co., No. 6....	Staunton .....	240	20	80,000	Home made.....
d Coal & M. Co., No. 2	Riverton.....	237	16	100,000	Home made.....
al Co.....	Girard .....	214	20	80,000	Litchfield .....
ted Coal Co., No. 8....	Mt. Olive .....	210	30	120,000	Home made.....
Coöperative Coal Co....	Springfield ...	208	16	75,000	Crawford & McCrimmon
Mining Co.....	Greenridge. ...	204	15	55,000	Litchfield .....

Table 88—Continued.

## FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name.
13	Madison Coal Co., No. 5.....	Mt. Olive. ....	202	22	85,000	Home made..
14	Consolidated Coal Co., No. 7....	Staunton.....	202	22	85,000	Duncan .....
15	Woodside Coal Co.....	Springfield ...	202	14	100,000	Duncan .....
16	Springfield Coal & M. Co., No. 4	Springfield ...	197	22	200,000	Duncan .....
17	Springfield Coal & M. Co., No. 5	Springfield ...	185	14	50,000	Crawford & M
18	Consolidated Coal Co., No. 10...	Mt. Olive.....	184	30	120,000	Home made..
19	Montgomery Coal Co.....	Paisley .....	180	12	50,000	Crawford & M
20	Springfield Coöperative Coal Co	Springfield ...	177	18	60,000	Ætna .....
21	Viriden Coal Co.....	Viriden .....	167	15	42,000	Crawford & M
22	Sangamon Coal Co.....	Springfield ...	167	14	90,000	Crawford & M
23	Springfield Coal & M. Co., No. 1	Riverton.....	161	20	100,000	Danville .....
24	West End Coal Co.....	Springfield ...	160	15	75,000	Crawford & M
25	Hillsboro Coal Co.....	Hillsboro .....	159	12	50,000	Crawford & M
26	Chicago-Viriden Coal Co.....	Chatham.....	156	15	75,000	Duncan .....
27	Wilmington & Springfield C.Co	Springfield ...	152	20	120,000	Ætna .....
28	Carlinville Coal Co.....	Carlinville ....	147	20	75,000	Litchfield ....
29	Spaulding Coal Co.....	Bissell .....	147	20	100,000	Ætna .....
30	Springfield Coal & M. Co., No. 3	Springfield ...	141	14	50,000	Crawford & M
31	Auburn & Alton Coal Co.....	Auburn .....	134	15	100,000	Duncan .....
32	Spaulding Coal Co., No. 1 .....	Spaulding ....	134	14	60,000	Crawford & M
33	Barclay Coal Mining Co.....	Barclay .....	130	15	75,000	Crawford & M
34	Cantrall Coöperative Coal Co...	Cantrall .....	129	15	100,000	Duncan .....
35	Consolidated Coal Co.....	Gillespie.....	124	8	50,000	Champion ....
36	Citizens' Coal & Mining Co., B.	Springfield ...	124	12	60,000	Crawford & M
37	Wabash Coal Co., No. 1 .....	Dawson .....	121	12	50,000	Crawford & M
38	Royal Colliery Co.....	Viriden. ....	119	8	32,000	Robinson .....
39	Jefferson Coal Co.....	Springfield ...	115	16	100,000	Ætna .....
40	Citizens' Coal Mining Co., A....	Springfield ...	114	14	50,000	Home make..
41	Williamsville Coal Co.....	Selbytown....	113	12	60,000	Crawford & M
42	Litchfield Mining & Power Co..	Litchfield .....	108	12	50,000	Crawford & M
43	Manufacturers' Fuel Co.....	Nilwood .....	98	6	25,000	Crawford & M
44	Clover Leaf Coal Co.....	Coffeen.....	91	10	40,000	Crawford & M

Table 88—Continued.

FIFTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Coal Co .....	Sherman .....	69	13½	350,000	Capell .....
ted Coal Co .....	Hornsby, .....	64	12	40,000	Crawford & McCrimmon
Springfield Coal Co ..	Springfield ..	51	22	200,000	Duncan .....
ted Coal Co., No. 14...	Staunton .....	48	22	85,000	Duncan .....
Coal Co .....	Keys .....	47	20	100,000	Ætna .....
al Co .....	Pleasant Pl'ns	46	12	60,000	Crawford & McCrimmon
ark Coal Mining Co ..	Springfield ..	37	12	30,000	Crawford & McCrimmon
ates & Co .....	Winchester...	32	7	18,000	Crawford & McCrimmon
& Co .....	Bunker Hill ..	12	10	25,000	Crawford & McCrimmon
ress Brick Co .....	Golden Eagle	11	4	10,000	Murphy .....
l Co .....	Raymond.....	9	10	40,000	Crawford & McCrimmon

## SIXTH DISTRICT.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
s. Coal & Coke Co. No. 1	Collinsville. ..	498	20	120,000	Duncan .....
& Davis, Nos. 3 and 4.	Centralia.....	412	20	150,000	Crawford & McCrimmon
s. Coal & Coke Co. No. 3	Troy .....	362	20	120,000	Duncan .....
s. Coal & Coke Co. No. 2	Collinsville ..	342	22	130,000	Duncan .....
Coal Co., No. 1.....	Staunton .....	274	22	150,000	Duncan .....
Min'g & Mfg. Co. No. 2	Centralia.....	268	20	60,000	Crawford & McCrimmon
Coal Co., No. 4.....	Glen Carbon..	235	22	130,000	Home made.....
Coal Co.....	Sorento.....	227	14	40,000	Not given.....
l Co .....	Odin.....	220	14	50,000	Cole .....
& O'Fallon Coal Co. ..	Belleville.....	211	16	100,000	Not given.....
niwald Coal Co. No. 1	Worden.....	209	16	100,000	Litchfield. ....
Coal Co., No. 2.....	Glen Carbon..	205	22	150,000	Home made.....

Table 88—Continued.

## SIXTH DISTRICT—Continued

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name
13	Trenton Coal Co.....	Trenton.....	195	14	30,000	Pump & Ske
14	Sandoval Coal Co.....	Sandoval.....	195	20	80,000	Crawford & J
15	Muren Coal & Ice Co .....	New Baden....	193	15	30,000	Pump & Ske
16	Lumaghi Coal Co., No. 2 .....	Collinsville...	191	6	65,000	Bullock.....
17	Consolidated Coal Co.....	Breese .....	180	10	32,000	Crawford & J
18	Breese Coal Co .....	Breese .....	174	20	75,000	Aetna.....
19	Muren Coal & Ice Co.....	Belleville.....	174	14	50,000	Not given....
20	Royal Coal Co.....	Belleville.....	146	20	150,000	Duncan .....
21	Madison Coal Co. No. 3 .....	Edwardsville ..	137	15	60,000	Not given....
22	Consolidated Coal Co. Abby No. 3	Collinsville...	126	20	127,000	Stokett.....
23	Kolb Coal Co.....	Mascoutah....	110	15	64,000	Not given....
24	Superior Coal & Mining Co.....	Belleville.....	107	20	130,000	Herzler & H
25	Consolidated Coal Co.....	Trenton .....	107	20	50,000	Stokett.....
26	Cons'l'd Coal Co., Heinz Bluff.	Collinsville...	106	12	27,000	Crawford & J
27	Joseph Taylor, Mentor.....	O'Fallon.....	106	12	30,000	Not given....
28	Lebanon Coal & Mining Ass'n.	Lebanon .....	105	12	25,000	Not given....
29	Glendale Coal Co., No. 1.....	Belleville.....	96	10	20,000	Not given....
30	Joseph Guest & Son.....	Belleville.....	92	12	40,000	Crawford & J
31	Joseph Taylor, Taylor .....	O'Fallon.....	89	8	30,000	Ellison.....
32	Madison Coal Co. No. 7.....	Belleville.....	86	12	35,000	Not given....
33	Walnut Hill Coal Co.....	Belleville.....	84	15	50,000	Herzler & H
34	Germantown Coal Co.....	Germantown ..	82	10	20,000	Stokett.....
35	Mo. & Ill. Coal Co., Rentschler..	Belleville.....	79	15	50,000	Not given....
36	Kolb Coal Co.....	Mascoutah....	72	12	75,000	Not given....
37	Eureka Coal Co.....	Marissa.....	64	15	100,000	Herzler & H
38	Tirre Coal Co.....	Lensburg.....	64	10	20,000	Pump & Ske
39	Geo. Hippard.....	Belleville.....	63	14	100,000	Ellison.....
40	Lumaghi Coal Co. No. 3.....	Collinsville...	63	10	30,000	Not given....
41	Dutch Hollow Coal Co., Oakland	Belleville.....	62	10	20,000	Pump & Ske
42	Geo. Hippard, Walnut Valley...	Belleville.....	61	10	80,000	Herzler & H
43	Henrietta Coal Co .....	Edwardsville ..	60	15	50,000	Duncan.....
44	Daniel Zildorph.....	Marissa .....	59	8	20,000	Crawford & J
45	Dutch Hollow Coal Co., Randle	Freeburg .....	59	8	15,000	Ellison.....

Table 88—Continued.

## SIXTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Coal & Mining Co., Har-	Belleville.....	59	12	20,000	Not given.....
'd Coal Co., Brookside	Troy .....	58	10	22,000	Crawford & McCrimmon
Coal Co. No. 1.....	Marissa .....	57	8	30,000	Crawford & McCrimmon
& O'Fallon .....	Belleville.....	57	9	30,000	Pump & Skein.....
ran .....	Caseyville ....	56	8	20,000	Not given.....
il Co.....	Birkner .....	56	10	40,000	Not given.....
Coal Co.....	Belleville.....	55	10	20,000	Not given.....
Coal Co .....	Belleville.....	54	10	20,000	Not given.....
Coal & Mining Co.	Worden.....	52	12	50,000	Not given.....
Coal Co .....	Marissa .....	52	12	20,000	Ellison .....
Coal & Mining Co ...	O'Fallon.....	51	9	20,000	Ellison .....
Coal Co., St. Clair ...	Belleville ....	50	10	18,000	Not given.....
ining Co., No. 1 .....	Staunton.....	45	22	150,000	Duncan.....
ed Coal Co., Schure-	Belleville.....	42	10	20,000	Crawford & McCrimmon
Coal Co., Wilderman	Belleville.....	42	12	23,000	Not given.....
ed Coal Co., White	Marissa .....	42	10	16,000	Crawford & McCrimmon
ed Coal Co., Gartside	Belleville.....	42	10	20,000	Crawford & McCrimmon
s. Coal & Coke Co.,	Belleville.....	40	8	10,000	Not given.....
allow Coal Co., Ad-	Marissa .....	36	10	20,000	Blakeslee .....
Coal Co .....	Belleville.....	36	9	18,000	Not given.....
Coal Mining Co.....	Belleville.....	34	6	15,000	Not given.....
al Co.....	Belleville.....	34	8	20,000	Not given.....
r Coal Co.....	Kinmundy....	32	12	20,000	Cole .....
Coal Co .....	Belleville.....	31	6	10,000	Not given.....
ed Coal Co., Green	Belleville.....	30	10	20,000	Crawford & McCrimmon
rior Coal Co.....	Belleville.....	30	8	12,000	Pump & Skein.....
ed Coal Co., Richland	Belleville.....	30	10	16,000	Crawford & McCrimmon
Coal Co .....	Freeburg.....	28	9	20,000	Not given.....
Mining Co.....	Rentchler.....	24	8	20,000	Ellison .....



Table 88—Continued.

## SIXTH DISTRICT—Concluded..

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name
75	Consolidated Coal Co., Rose Hill	Belleville.....	24	10	20,000	Crawford & M
76	Pittsburg Mining Co .....	Belleville.....	23	10	45,000	Pump & Skein
77	Chas. Hortman.....	Belleville.....	23	12	24,000	Pump & Skein
78	Home Trade Coal Co.....	Edwardsville ..	22	10	35,000	Not given....
79	Joseph Taylor, St. Ellen.....	O'Fallon.....	21	3	10,000	Buffalo .....
80	Lenz Coal & Mining Co., Shiloh	Belleville.....	17	16	60,000	Ellison .....
81	Dutch Hill Coal Co.....	New Athens..	14	4	10,000	Not given....
82	Salem Coal Co.....	Salem .....	10	8	10,000	Cole .....
83	Frank Sargeant .....	Belleville.....	10	5	10,000	Not given....
84	Bullock Bros. Coal Co.....	Collinsville ...	9	10	30,000	Crawford & M
85	August Ebel .....	Belleville.....	8	6	10,000	Not given....
86	Tower Grove Coal Co.....	Belleville.....	8	5	10,000	Not given....
87	James Beatty .....	Mascoutah ...	5	5	10,000	Not given....

## SEVENTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute.	Name
1	Big Muddy Coal & Iron Co., No. 7.....	Herrin .....	326	20	120,000	Crawford & M
2	Sunnyside Coal Co., No. 1.....	Herrin .....	273	20	100,000	Crawford & M
3	Chicago & Carterville Coal Co., No. 1 .....	Herrin .....	271	20	100,000	Crawford & M
4	Big Muddy Coal & Iron Co., No. 6.....	Murphysboro.	270	15	80,000	Crawford & M
5	Big Muddy Coal & Iron Co., Harrison.....	Murphysboro.	247	24	70,000	Murphy .....
6	Willis Coal & Mining Co., No. 1	Willisville ...	233	22	150,000	Duncan .....
7	Muddy Valley Min. & Mfg. Co.	Hallidayboro.	230	16	90,000	Blakeslee ...
8	St. Louis & Big Muddy Coal Co.	Dewmaine.....	227	20	240,000	Crawford & M

Table 88—Continued.

## SEVENTH DISTRICT—Continued.

NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
			Diameter—feet.	Capacity—cubic feet per minute.	Name.
Walnut Coal Co.....	Pinckneyville	195	20	120,000	Blakeslee .....
Manufacturers Fuel Co., Jupiter .....	Duquoin .....	189	12	50,000	Not given .....
Coal Min. & Washing No. 3.....	Marion .....	179	20	160,000	Crawford & McCrimmon
Coal Min. & Washing No. 2.....	Marion .....	173	20	160,000	Crawford & McCrimmon
Virginia Coal Co., No. 1..	Lake Creek...	162	12	35,000	Crawford & McCrimmon
Go & Big Muddy Coal & Co. No. 1.....	Marion .....	157	20	100,000	Aetna .....
mson Co. Coal Co.....	Lake Creek...	154	10	35,000	Not given .....
Colliery Co.....	Duquoin .....	150	15	80,000	Not given .....
port Coal Co.....	Ledford, .....	132	14	100,000	Not given .....
Manufacturers Fuel Co., Jupiter .....	Pinckneyville	129	10	40,000	Not given .....
go Herrin Coal Co., No. 1.	Herrin .....	120	12	35,000	Crawford & McCrimmon
on City & Big Muddy & Min. Co.....	Lake Creek...	117	20	100,000	Duncan .....
rn Anthracite Coal & Co .....	Sparta .....	111	18	100,000	Not given .....
Coal & Mining Co., No. 6	Percy .....	110	10	35,000	Ottumwa .....
Superior Coal & Min. Co..	Duquoin .....	108	12	60,000	Blakeslee .....
Manufacturers Fuel Co., Jupiter .....	Duquoin .....	107	12	50,000	Not given .....
Ohio Washed Coal Co.....	Cartersville .....	103	12	35,000	Not given .....
y-Koenecke Coal Co.....	Cartersville .....	97	16	55,000	Blakeslee .....
t Coal & Coke Co.....	Sparta .....	92	12	50,000	Blakeslee .....
in Coal & Coke Co.....	Equality .....	87	10	30,000	Crawford & McCrimmon
le Coal Co. No. 4.....	Murphsboro ..	86	14	12,000	Home made .....
l Coal Co.....	Tilden .....	83	12	60,000	Home made .....
Manufacturers' Fuel Co., Jupiter .....	St. John.....	77	18	100,000	Litchfield .....
ville District Coal Co. ....	Marion .....	76	6	16,000	Sullivan .....
Dick Coal Co.....	Cartersville....	76	12	35,000	Not given .....
Muddy Coal Co.....	Tamara .....	75	12	80,000	Not given .....
Coal & Coke Co. No. 1....	Sparta .....	75	12	60,000	Blakeslee .....
Co.....	Cutler.....	72	10	30,000	Blakeslee .....

Table 88—Concluded.

SEVENTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Number of employes under ground.	FAN.		
				Diameter—feet.	Capacity—cubic feet per minute	Name.
37	Tilden Coal Co.....	Tilden .....	71	10	35,000	Blakeslee .....
38	Clifton Coal Co .....	Ledford .....	65	10	40,000	Crawford & McCrimmon .....
39	Gas Coal Co.....	Harrisburg ..	64	14	50,000	Hellman .....
40	Greenwood Davis Coal Co.....	Duquoin.....	62	8	20,000	Blakeslee.....
41	Willis Coal & Mining Co. No. 5.	Percy .....	62	10	30,000	Not given.....
42	Mo. & Ill. Fuel Co., No. 4.....	Willisville.....	56	11	20,000	Not given.....
43	Western Coal & Mining Co.....	Bush .....	54	22	100,000	Duncan .....
44	Illinois Fuel Co., No. 3.....	Sparta.....	44	12	60,000	Ellison.....
45	Easton Fuel Co.....	Sunfield.....	43	14	12,000	Not given.....
46	Coulterville Mining Co., No. 1..	Coulterville ..	42	10	30,000	Crawford & McCrimmon .....
47	Gartside Coal Co., No. 3.....	Murphysboro..	42	14	12,000	Home-made.....
48	Willis Coal & Mining Co., No. 2	Bryden .....	41	10	30,000	Blakeslee .....
49	Chicago & Coulterville Coal Co.	Coulterville ..	41	11	20,000	Crawford & McCrimmon .....
50	Perry County Coal Co.....	Duquoin .....	37	10	35,000	Blakeslee ..
51	Carterville Mining Co.....	Herrin.....	35	20	90,000	Blakeslee .....
52	Jefferson Coal Co.....	Mt. Vernon.....	35	14	12,000	Not given ..
53	A. E. Powell.....	Coulterville ..	33	12	60,000	Not given ..
54	Illinois Fuel Co., No. 4.....	Sparta.....	32	18	110,000	Crawford & McCrimmon .....
55	Hugh Murray .....	Nashville.....	29	9	30,000	Crawford & McCrimmon .....
56	Davis C. & Iron Co., Queen City	Duquoin .....	25	18	100,000	Not given.....
57	Gus Blair Big Muddy Coal Co ..	Murphysboro..	17	6	5,000	Not given.....
58	Morris Coal Co.....	Carriers Mills.	14	14	50,000	Not given.....
59	Schmidgall Coal Co.....	Murphysboro..	10	8	130,000	Cole .....
60	Manufacturers' Fuel Co.....	St. John.....	10	18	100,000	Litchfield .....
61	Eldorado Coal Co.....	Eldorado .....	10	10	40,000	Crawford & McCrimmon .....
62	Casaway Bros.....	Eldorado .....	5	9	10,000	Not given.....
63	Zeigler Coal Co.....	Zeigler.....	5	8	20,000	Not given.....

This presents the record of ventilating fans in detail, as reported, in all the districts. Some difficulty was encountered in collecting statistics on this subject, owing to the neglect of the operators in reporting the name of the fan in use. However, sufficient data has been obtained to give a fair representation of the subject matter of ventilation in the mines of the State.

TABLE 89—*Fans in Use in the State by Districts.*

The following list gives the number and name of fans in use in the State, by districts:

TABLE 90.—Names and Number of Fans in Use in the Mines of the State, by Districts.

Number.	NAME OF FAN.	DISTRICTS.							Total
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
1	Crawford & Crimmon....	13	2	32	19	24	16	16	122
2	Duncan .....		2	1	2	10	7	3	25
3	Cole.....	1	2	6	1		3	1	14
4	Blakeslee.....						1	12	13

Table 90—Concluded.

Number.	NAME OF FAN.	DISTRICTS.							Total
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
5	Litchfield .....				2	4	1	2	9
6	Pump & Skein.....						8		8
7	Ellison.....						7	1	8
8	Ætna .....					5	1	1	7
9	Ottumwa.....		2	4				1	7
10	Capell.....	1	4			1			6
11	Guibal .....	5			1				6
12	Cyclone.....	6							6
13	Murphy .....		2	1	2	1		1	6
14	Robinson .....				2	1			4
15	Herzler & Henninger.....						4		4
16	Champion .....				2	1			3
17	Stokett.....						3		3
18	Danville .....				1	1			2
19	Kangley .....	2							2
20	Barnard & Leas.....		2						2
21	Buffalo.....			1			1		2
22	Wood.....	1							1
23	Bagley.....	1							1
24	Erie.....	1							1
25	Parker.....	1							1
26	Frost.....		1						1
27	Armentrout.....		1						1
28	Brunner.....		1						1
29	Eagle .....			1					1
30	Holmes .....				1				1
31	Dixon.....				1				1
32	Devlin.....				1				1
33	Bullock.....						1		1
34	Sullivan .....							1	1
35	Heilman .....							1	1
	Home made .....	2	11	12	3	7	2	3	40
	Name not reported .....	5	1	4	4		32	20	66
	Totals .....	39	31	62	42	55	87	63	379



Table 91—Continued.

## CALHOUN COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Thomas Press Brick Co....	Golden Eagle	1	Str.	2.4	Dr.	....	P-R..	M....	Hd...	3,110

## CASS COUNTY.

1	William Shore .....	Chandlerville.	2	40	3.	Sh.	Ho	P-R..	Hd...	Hd...	1,300
2	Charles Nelson .....	Chandlerville.	2	40	3.	do	do	do	do	do	1,200
	2 mines.....										2,500

## CHRISTIAN COUNTY.

1	Springfield C. M. Co., No. 6	Taylorville ...	5	462	7.6	Sh.	St..	P-R..	E-M.	Hd...	208,892
2	Christian Co. C <sup>1</sup> Co., No. 1	Taylorville ...	5	470	7.6	do	do	do	M...	H-M	188,113
3	Penwell Coal Mining Co.	Pana .....	5	723	7.6	do	do	do	E-M.	Hd...	156,267
4	Newbent Coal Co., No. 2	Pana .....	5	720	7.6	do	do	do	do	do	113,977
5	Pana Coal Co., No. 1	Pana .....	5	720	7.6	do	do	do	do	do	110,513
6	Manufacturers Fuel Co.	Pana .....	5	723	7.6	do	do	do	C-M.	do	110,503
7	Assumption C. & M. Co.	Assumption ..	1	1003	3.6	do	do	L-W	M...	do	96,534
8	Edinburg Coal Co	Edinburg.....	5	365	7.0	do	do	P-R..	do	do	1,886
	8 mines.....										986,685

## CLINTON COUNTY.

1	Breese Coal Co.....	Breese .....	6	400	7.	Sh.	St..	P-R..	M-E.	Hd...	271,667
2	Consolidated Coal Co.	Breese .....	6	400	7.	do	do	do	M...	do	174,867
3	Muren Coal Co.	New Baden ..	6	324	8.	do	do	do	do	M...	170,469
4	Trenton Coal Co.	Trenton .....	7	235	4.10	do	do	do	do	do	149,816
5	Consolidated Coal Co.	Trenton .....	7	333	4.10	do	do	do	do	do	86,768
6	Germantown Coal Co	Germantown ..	6	342	4.10	do	do	do	do	H...	71,988
	6 mines.....										925,515

## EDGAR COUNTY.

1	John Witte Coal Co., No. 1	Paris .....	5	125	6.	Sh.	St.	P-R..	M...	Hd...	6,022
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## FRANKLIN COUNTY.

1	Zeigler Coal Co.....	Zeigler .....	7	505	12.2	Sh.	St..	P-R..	E....	M...	4,200
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Table 91—Continued.

**GALLATIN COUNTY.**

[illegible]

GREENE COUNTY.

1	Dill Coal Co .....	Roodhouse .....	50		Sh.	Ho	P-R	Hd...	Hd...	3.35
2	A. F. Collins .....	Greenfield .....	60		.do	.do	.do	.do	.do	2.95
3	E.d. Griffiths .....	Roodhouse.....	1 50	2.6	.do	.do	.do	.do	.do	2.75
4	Ed. Axley .....	Roodhouse.....	1 25	2.6	.do	.do	.do	.do	.do	2.85
5	Cal. Cummings .....	Roodhouse.....	1 25	2.6	Dr.	.do	.do	.do	.do	1
6	Duggan & Tulley .....	Scottsville .....	30		Sl..	.do	.do	.do	.do	
7	J. Hart .....	Greenfield .....	25		Dr.	.do	.do	.do	.do	
7 mines.....										

GRUNDY COUNTY.

1	Chi., Wilm. & Ver. C. Co.,	S. Wilmington	2	195	3.3	Sh.	Str.	L.W.	M.	Hd.	
2	Chi., Wilm. & Ver. C. Co.,	S. Wilmington	2	169	3.3	do	do	do	do	do	
3	Braceville Coal Co., 5	Braceville	2	103	3.2	do	do	do	do	do	
4	Taylor & Cavanaugh, 5	Carbon Hill	2	99	3.0	do	do	do	do	do	
5	Big Four Wilm. Coal Co.,	Coal City	2	85	3.0	Sl.	do	do	do	do	
6	Wilmington Star Min. Co.,	Coal City	2	90	3.0	Sh.	do	do	do	do	
7	Wilm. Coal M. & Mfg. Co.,	Diamond	2	105	3.0	do	do	do	do	do	
8	Wilm. Coal M. & Mfg. Co.,	Diamond	2	110	3.0	do	do	do	do	do	
9	Wilmington Star Min. Co.,	Coal City	2	101	3.0	do	do	do	do	do	
10	Big Four Wilm. Coal Co.,	Coal City	2	90	3.0	do	do	do	do	do	
11	Braceville Coal Co., 6	Braceville	2	112	3.0	do	do	do	do	do	
12	Taylor & Cavanaugh, 4	Carbon Hill	2	75	3.0	Sl.	do	do	do	do	
13	Big Four Wilm. Coal Co.,	Eileen	2	100	3.3	Sh.	do	do	do	do	
14	Espley & Handwerk, 1	Morris	2	50	2.8	do	do	do	do	do	
15	J. K. Telfer	Telfer	2	51	3.0	do	do	P.-R.	Hd.	do	
16	William Wood	Woods	2	61	2.9	do	Ho	do	do	do	
17	Frank Gilbride	Gilbride	2	80	3.0	do	do	do	do	do	
18	Mitchell Bros	Morris	2	40	2.8	Sl.	do	do	do	do	
19	James Heather	Morris	2	50	3.0	do	do	do	do	do	
20	Byrens & Fleming	Morris	2	48	3.0	do	do	do	do	do	
21	James Bell	Morris	2	41	2.8	do	do	do	do	do	
22	John Cryer	Morris	2	75	2.9	do	do	do	do	do	
23	Wilmington Star Min. Co.,	Coal City	2	180	3.0	do	Str.	L.W.	M.	do	
24	Henry Tesdall	Morris	2	97	2.9	do	Ho	P.-R.	Hd.	do	
25	R. Blair	Morris	2	40	3.0	do	do	do	do	do	
25 mines											1,405.58



Table 91—Continued.

JACKSON COUNTY.

[illegible]

**JEFFERSON COUNTY.**

1	Jefferson Co. Coal Co.....	Mt. Vernon...	7	25	4.10	Sh.	St..	P.-R.	M ...	Hd....
2	J. R. Yates & Co.....	Dahlgren P't ..		8	2.	Str.		Str..		
3	Sophia A. Shelton.....	Opdyke.....	2	12	1.6	do	St..	do		
	3 mines.....									

**JERSEY COUNTY.**

[illegible]

**JOHNSON COUNTY.**

[illegible]

Table 91—Continued.

## KANKAKEE COUNTY.

OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
		Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1. Coal Co. B.	Clark City....	2	130	2.8	Sh.	St..	L.W.	M-C.	Hd...	53,405

## KNOX COUNTY.

Co., No. 3.	Etherley.....	6	...	4.0	Dr.	M	R-R.	M	Hd	23,080
al Co., No. 1*	Yates City.....	2	94	3.0	Sh.	St..	do.	do.	do.	20,000
sex.....	Galesburg.....	1	112	4.0	do.	do.	do.	Hd	do.	5,800
os.....	Wataga.....	6	68	4.0	do.	do.	do.	do.	do.	5,750
ros.....	Galesburg.....	1	93	4.0	do.	do.	do.	do.	do.	5,012
hell.....	Wataga.....	6	55	4.0	do.	Ho	do.	do.	do.	4,868
d.....	Altona.....	6	25	4.0	Sl.	do.	do.	do.	do.	2,920
on.....	Wataga.....	6	...	4.0	Dr.	Hd	do.	do.	do.	1,934
er & Bro.	Victoria.....	6	20	4.0	Sl.	Ho	do.	do.	do.	1,600
lor.....	Wataga.....	6	...	4.0	Dr.	Hd	do.	do.	do.	1,600
overn.....	Oneida.....	6	50	4.2	Sh.	Ho	do.	do.	do.	1,600
urg.....	Yates City.....	6	45	4.2	do.	St.	do.	do.	do.	1,516
rn.....	Oneida.....	6	48	4.4	do.	Ho	do.	do.	do.	1,450
urg.....	Knoxville.....	3	45	2.8	do.	do.	do.	do.	do.	1,200
Robinson	Victoria.....	6	25	4.0	do.	do.	do.	do.	do.	1,074
elson.....	Victoria.....	6	20	4.0	do.	do.	do.	do.	do.	960
el.....	Knoxville.....	3	28	3.0	do.	do.	do.	do.	do.	866
edy.....	Knoxville.....	3	...	3.0	Dr.	Hd	do.	do.	do.	860
& Son	Delong.....	3	...	3.0	do.	do.	do.	do.	do.	720
an.....	Wataga.....	6	20	4.0	Sl.	Ho	do.	do.	do.	552
erkstrom	Victoria.....	6	...	4.0	Dr.	Hd	do.	do.	do.	520
l.....	Oneida.....	6	...	4.4	do.	do.	do.	do.	do.	500
l.....	Victoria.....	6	...	4.0	do.	do.	do.	do.	do.	480
l.....	Yates City.....	6	...	4.6	Sh.	St.	do.	do.	do.	480
l.....	Knoxville.....	3	40	3.0	do.	Ho	do.	do.	do.	446
l.....	Victoria.....	6	20	4.0	Sl.	do.	do.	do.	do.	416
l.....	Abingdon.....	2	...	2.0	Dr.	Hd	do.	do.	do.	400
l.....	Victoria.....	6	24	4.0	Sh.	Ho	do.	do.	do.	360
l.....	Knoxville.....	3	...	3.0	Dr.	Hd	do.	do.	do.	326
l.....	Abington.....	2	...	2.0	do.	do.	do.	do.	do.	320
l.....	Etherley.....	6	...	4.0	do.	do.	do.	do.	do.	320
l.....	Abington.....	2	...	2.0	do.	do.	do.	do.	do.	240
l.....	Victoria.....	6	...	4.0	do.	do.	do.	do.	do.	234
l.....	Victoria.....	6	...	4.0	do.	do.	do.	do.	do.	200
l.....	Abington.....	2	...	2.0	do.	do.	do.	do.	do.	200
l.....	Wataga.....	6	31	4.0	Sh.	Ho	do.	do.	do.	160
l.....	Knoxville.....	3	...	3.0	Dr.	Hd	do.	do.	do.	160
l.....	Abington.....	2	...	2.0	do.	do.	do.	do.	do.	160
l.....	Farmington.....	6	...	4.0	do.	do.	do.	do.	do.	140
l.....	Victoria.....	6	10	4.0	Sl.	Ho	do.	do.	do.	120
l.....	Victoria.....	6	...	4.0	Dr.	Hd	do.	do.	do.	120
l.....	Victoria.....	6	...	4.0	do.	do.	do.	do.	do.	120
l.....	Abington.....	2	...	2.0	do.	do.	do.	do.	do.	80
l.....	Wataga.....	6	15	4.0	Sl.	Ho	do.	do.	do.	48
l.....	Watago.....	6	20	4.0	do.	do.	do.	do.	do.	40
l.....	Victoria.....	6	...	4.0	Dr.	Hd	do.	do.	do.	40
										89,992

-Geological numbers 2 and 5, depth of coal 94 feet and 201 feet, thickness of seam 6 inches, worked long wall and pillar and room.

Table 91—Continued.

**LASALLE COUNTY.**

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—band, machine, both.	
1	LaSalle Co. Carbon C.Co., 1	LaSalle	440	3.6	Sh.	St.	L.W.	M	Hd		
2	Acme Coal Co., Acme	Streator	110	6.6	do	do	P.R.	M-C	do		
3	LaSalle Co. C. C. Co., Un'n	LaSalle	375	3.6	do	do	L.W.	M	do		
4	LaSalle Co. C. C. Co., LaS.	LaSalle	382	3.6	do	do	do	do	do		
5	Chi., Wil. & Ver. C. Co., 2	Streator	116	6.0	do	do	do	M-E	do		
6	LaSalle Co. Carb. Coal Co.	LaSalle	390	3.6	do	do	do	M	do		
7	Star Coal Co.	Kangley	86	5.0	do	do	P.K.	M-C	do		
8	Oglesby Coal Co.	Oglesby	464	3.6	do	do	L.W.	M	do		
9	M. & H. Zinc Co.	LaSalle	310	4.6	do	do	P.R.	do	do		
10	Mrs. Emerson Hakes	Rutland	500	2.9	do	do	L.W.	do	do		
11	Chi. Wil. & Ver. C. Co., No. 1	Streator	212	3.0	do	do	do	do	do		
12	James Cahill's Estate	Peru	350	3.0	do	do	do	do	do		
13	Illinois Zinc Co.	Peru	130	3.0	Dr.	do	do	M-C	do		
14	Marseilles C. Min. Co., Nc. 1	Marseilles	120	2.10	Sh.	do	do	M	do		
15	William Francis, 2	Streator	48	5.0	Dr.	do	P.R.	do	do		
16	Munts Brothers	Streator	61	4.0	do	Ho	do	H	do		
17	North Wilm. Coal Co., No. 1	Seneca	112	3.0	Sh.	St.	L.W.	M	do		
18	Howe Coal Co., No. 1	Streator	87	5.0	do	do	P.R.	H	do		
19	Sawerby & Co., No. 1	Streator	50	4.6	Dr.	do	do	M	do		
20	Star Coal Co., No. 4	Kangley	200	3.0	Sh.	do	L.W.	do	do		
21	Haar Brothers	Streator	40	4.6	do	Ho	P.R.	H	do		
22	Oscar Kimes	Streator	50	4.0	Sl.	do	do	do	do		
23	Lewis Evans	Kangley	25	4.0	Sh.	do	do	do	do		
24	Evans Brothers, No. 2	Streator	60	5.0	do	do	do	do	do		
25	Thos. Smith & Sons, No. 1	Streator	51	5.0	do	do	do	do	do		
26	Nelson & Stokes, No. 1	Streator	75	4.6	Sl.	do	do	do	do		
27	John McNeil	Kangley	75	8.6	Sh.	do	do	do	do		
28	W. Thomas & Co	Streator	48	5.0	Sl.	do	do	do	do		
29	Bargreen Bros.	Streator	60	2.0	do	do	do	do	do		
30	Felton & Voight	Streator	75	5.0	Sh.	do	do	do	do		
31	Mathew White, No. 1	Ottawa	30	2.8	do	do	do	do	do		
32	Brookens Bros.	Lowell	100	3.0	Dr.	do	do	do	do		
33	Daniel Vazaine	Ottawa	60	2.4	do	Hd	do	do	do		
34	Jos. W. McCullough	Ottawa	60	2.4	do	do	do	do	do		
35	T. B. Farrell	Ottawa	45	2.4	do	do	do	do	do		
36	Ringer & Hockstetler	Ottawa	50	2.4	do	do	do	do	do		
37	Myers & Hendee	Ottawa	50	2.4	do	do	do	do	do		
38	William Mertz	Ottawa	65	2.4	do	do	do	do	do		
39	James Edson	Ottawa	60	2.4	do	do	do	do	do		
40	L. W. Brewer	Ottawa	55	2.4	do	do	do	do	do		
41	William Saxby	Ottawa	70	2.4	do	do	do	do	do		
41 mines.											1,773,189



Table 91—Continued.

## MACOUPIN COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							
			Geological seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Holisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.
1	Chi.-Virden C. Co. No. 1.	Virden	5	320	7.6	Sh.	St.	P.-R.	E	M
2	Consolidated C. Co. No. 6.	Staunton	5	322	6.0	do	do	do	C	do
3	Madison Coal Co. No. 5.	Mt. Olive	5	435	8.0	do	do	do	M	do
4	Consolidated C. Co. No. 8.	Mt. Olive	5	410	8.0	do	do	do	E	do
5	Girard Coal Co.	Girard	5	354	6.6	do	do	do	M	Hd.
6	Consolidated C. Co. No. 10.	Mt. Olive	5	431	8.0	do	do	do	E	M
7	Consolidated C. Co. No. 7.	Staunton	5	360	6.8	do	do	do	M	do
8	Greenridge Mining Co.	Greenridge	5	350	6.4	do	do	do	do	Hd.
9	Virden Coal Co.	Virden	5	320	7.6	do	do	do	do	do
10	Carlville Coal Co.	Carlville	5	290	6.0	do	do	do	do	do
11	Consolidated Coal Co.	Gillespie	5	355	7.0	do	do	do	do	M
12	Manufacturers Fuel Co.	Nilwood	5	325	6.0	do	do	do	do	Hd.
13	Royal Colliery Co.	Virden	5	348	7.6	do	do	do	do	do
14	Consolidated Coal Co.	Hornsby	5	388	6.6	do	do	do	do	M
15	Superior Coal Co. No. 1	Gillespie	5	348	8.0	do	do	do	do	do
16	Consolidated C. Co. No. 14.	Staunton	5	284	6.6	do	do	do	do	do
17	Wm. Neil & Co.	Bunker Hill	5	250	5.6	do	do	do	do	do
18	Davis Bros.	Chesterfield	Pkt	60	Pkt	do	Ho	do	Hd.	Hd.
19	Fred Luekings	Brighton	5	60	5.6	do	do	do	do	do
20	G. D. Loper	Chesterfield	Pkt	52	Pkt	do	do	do	do	do
21	W. H. A. Bodi	Chesterfield	Pkt	30	Pkt	do	do	do	do	do
22	E. Launsford & Co.	Bunker Hill	5	240	4.6	do	do	do	do	do
23	John Harbaugh	Chesterfield	Pkt	50	Pkt	do	do	do	do	do
24	Superior Coal Co. No. 2	Gillespie	5	324	8.0	do	St.	do	M	M
25	Wm. Hickey	Chesterfield	Pkt	30	Pkt	do	Ho	do	Hd.	Hd.
26	Bouser & Truesdale	Bunker Hill	5	245	5.6	do	do	do	do	do
26	26 mines.									2

## MADISON COUNTY.

1	Donk Bros. C. & C. Co., No. 1	Collinsville	6	135	7.0	Sh.	St.	P.-R.	M.-E	Hd.
2	Donk Bros. C. & C. Co., No. 2	Collinsville	6	245	7.0	do	do	do	M	M
3	Staunton C. & M. Co., No. 1	Staunton	6	292	6.0	do	do	do	M.-E	do
4	Donk Bros. C. & C. Co., No. 3	Troy	6	280	5.0	do	do	do	do	Hd.
5	Madison Coal Co., No. 4.	Glen Carbon	6	130	6.6	do	do	do	M	M
6	Lumaghi Coal Co., No. 1.	Collinsville	6	170	7.0	do	do	do	do	do
7	Madison Coal Co., No. 2.	Glen Carbon	6	110	6.6	do	do	do	do	do
8	Madison Coal Co., No. 3.	Edwardsville	6	217	7.0	do	do	do	do	do
9	Kems-Donniewald, No. 1.	Worden	6	270	7.0	do	do	do	do	do
10	Consolidated Coal Co.	Collinsville	6	168	7.0	do	do	do	do	do
11	Con-Coal Co.-Abbey, No. 3	Collinsville	6	146	7.0	do	do	do	do	do
12	Henrietta Coal Co., No. 1.	Edwardsville	6	180	7.0	do	do	do	do	Hd.
13	Con-Coal Co., Brookside.	Troy	6	278	5.0	do	do	do	do	do
14	Lumaghi Coal Co., No. 3.	Collinsville	6	165	7.0	do	do	do	do	M
15	DeCamp Coal M. Co., No. 1	Staunton	6	183	5.0	do	do	do	do	do
16	Inter-State C. M. Co., No. 1	Worden	6	275	6.0	do	do	do	do	H.-M
17	Edwardsville H. T. C. Co.	Edwardsville	6	131	5.0	do	do	do	Hd.	Hd.
18	Bullock Bros. Coal Co.	Collinsville	6	170	7.0	do	do	do	M	do
19	Abbey Coal Co., No. 4	Collinsville	6	200	7.0	do	do	do	do	do
20	Perry Meyers	Bethalto	2	65	4.0	do	Ho	do	Hd.	do
21	George Kabel	Moro	2	85	4.0	do	do	do	do	do
22	James Hill	Fosterburg	2	75	3.0	do	do	do	do	do
23	Frank Eccles	North Alton	2	80	2.6	do	do	do	do	do

**MADISON COUNTY—Concluded.**

[illegible][illegible][illegible]



Table 91—Continued.

## McDONOUGH COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Rippetoe & Rundle.....	Colchester.....	60	12	6	Sh.	St.	P.R.	Dog.	Hd.	10, 17
2	T. E. Wilson.....	Blandinsville.....	40	12	6	Dr.	Hd.	do.	Hd.	do.	4, 39
3	Burney & Co.....	Blandinsville.....	53	12	6	do.	Ho.	do.	Dog.	do.	4, 12
4	John Wilson.....	Colchester.....	40	12	4	do.	Hd.	do.	Hd.	do.	3, 11
5	Ralph Oldham.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	2, 3
6	John Nee.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
7	Barrett & Green.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
8	Jackson M. Davis.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
9	Atkinson Bros.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
10	Thomas Cooper.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
11	Charles Atkinson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
12	Laron Bowman.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
13	W. B. Davidson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
14	John Berry.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
15	George W. Foster.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
16	William Kipling.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
17	David Morden.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
18	Wm. H. Robinson.....	Macomb.....	40	12	4	do.	do.	do.	do.	do.	1, 1
19	Richard Humes.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
20	Wayland Bros.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
21	Lewis Lewis.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
22	John Pearson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
23	John Mitchell.....	Vermont.....	40	12	4	do.	do.	do.	do.	do.	1, 1
24	Eli Hilliard.....	Colchester.....	40	12	4	do.	do.	do.	Dog.	do.	1, 1
25	C. E. Waddill.....	Tennessee.....	40	12	4	do.	do.	do.	do.	do.	1, 1
26	George Polonus.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
27	William Eddington.....	Macomb.....	40	12	4	do.	do.	do.	do.	do.	1, 1
28	John Putt.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
29	William Hudson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
30	Joseph Bunt.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
31	Andrew Swanson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
32	Clay Nudd.....	LaHarpe.....	40	12	4	do.	do.	do.	do.	do.	1, 1
33	Teel & Baker.....	Macomb.....	40	12	4	do.	do.	do.	do.	do.	1, 1
34	Link Whitley.....	Industry.....	40	12	4	do.	do.	do.	do.	do.	1, 1
35	John Betson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
36	Jackson Gilligan.....	Industry.....	40	12	4	do.	do.	do.	do.	do.	1, 1
37	John Reeder.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
38	Fred Newecker.....	Bushnell.....	40	12	4	do.	do.	do.	Hd.	do.	1, 1
39	William Whalen.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
40	Willis Stoneking.....	Fandon.....	40	12	4	do.	do.	do.	do.	do.	1, 1
41	Aaron Crane.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
42	Frank Burdick.....	Industry.....	40	12	4	do.	do.	do.	Ho.	do.	1, 1
43	M. McClure.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
44	E. H. Carmack.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
45	Richard Laity.....	Colchester.....	40	12	4	do.	Ho	P.R.	Hd.	H	1, 1
46	Anton Lokasik.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
47	J. W. Harp.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
48	John C. Kirkbride.....	Vermont.....	40	12	4	do.	Hd.	do.	do.	do.	1, 1
49	William Webster.....	Vermont.....	40	12	4	do.	do.	do.	do.	do.	1, 1
50	Charles Porter.....	Vermont.....	40	12	4	Sh.	do.	do.	do.	do.	1, 1
51	Frank Volger.....	Birmingham.....	40	12	4	Dr.	do.	do.	do.	do.	1, 1
52	William Hoar.....	Colchester.....	40	12	4	do.	Dg.	do.	do.	do.	1, 1
53	Harvey Russell.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
54	D. C. Perry.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
55	Williams & Bro.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
56	Andrew Newneker.....	Bushnell.....	40	12	4	do.	do.	do.	do.	do.	1, 1
57	William Bexson.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1
58	Smith Bros.....	Colchester.....	40	12	4	do.	do.	do.	do.	do.	1, 1

**MCDONOUGH COUNTY—Concluded.**

[illegible]

.Coal Co., o.1*	Bloomington	2-5	400	4.0	Sh.	St.	L-W	C..	Hd ..		150 000
Co. No. 1	Colfax	6	400	6.0	.do	.do	P-R	M ..	.do ..		42 986
Coal Co., No. 1	Chenoa	6	275	6.0	.do	.do	.	.do	.do ..		20 000
erative Co.No.1	Colfax	6	400	6.0	.do	.do	.do ..	.do	.do ..		5,174
											218,140

ns—Geological numbers 8 and 5, depth of coal, 400 feet and 541 feet; thickness of  
and 3 feet 6 inches, haulage, cable and mule.

[illegible]



Table 91—Continued.

## PEORIA COUNTY.

NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								Total tons.
		Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1 & Coke Co., A.	Peoria	5	105	4.2	Sh.	St.	P. R.	M.-E	Hd	122,230
s. No. 3	Peoria	5	80	4.4	do	do	do	M.-C	do	103,049
z Coop. Coal Co.	Peoria	5	150	4.4	do	do	do	do	do	82,376
Bros	Peoria	5	90	4.4	do	do	do	do	do	71,136
Bros	Peoria	5	90	4.4	do	do	do	do	do	60,683
& Taylor	Edwards	5	120	4.2	Dr.	do	do	M.-E	do	60,125
oop. Coal Co.	Bartonville	5	180	4.4	Sh.	do	do	M	do	54,380
Bros	Peoria	5	75	4.4	Dr.	do	do	M.-C	do	38,040
oal & Coke Co	Elmwood	5	120	3.6	Sh.	do	do	M	do	34,608
s	Kramm	5	80	4.0	Dr.	Ho	do	do	do	25,230
Bros	Peoria	5	180	4.4	Sh.	St.	do	do	do	25,059
Bros	Peoria	5	250	4.2	do	do	do	do	do	24,880
mm	Peoria	5	80	4.2	Dr.	do	do	do	do	20,200
Coal Co.	Bartonville	5	90	4.4	Sl.	do	do	do	do	18,260
ley	Mapleton	5	80	4.6	Dr.	do	do	do	do	17,980
alker	Mapleton	5	70	4.6	do	do	do	do	do	15,957
n Coal Co	Orchard M's	5	100	2.6	Sh.	do	L. W.	do	do	13,920
nt & Son	Peoria	5	105	4.2	do	do	P. R.	do	do	13,630
Coal Co.	Bartonville	5	90	4.4	Sl.	do	do	do	do	12,640
Coal Co.	Peoria	5	100	4.6	Sh.	do	do	M.-C	do	10,700
& Snedden	Peoria	5	90	4.6	Sl.	do	do	M	do	10,670
Co	Bartonville	5	90	4.4	Sh.	do	do	do	do	8,010
Coal Co.	Peoria	5	80	4.4	Sl.	Ho	do	do	do	7,240
e Coal Co.	Peoria	5	80	4.4	Sh.	St.	do	do	do	6,820
Son	Bartonville	5	90	4.4	do	do	do	do	do	6,780
gbee	Princeville	6	70	4.6	do	do	do	do	do	5,680
Edwards	Edwards	5	100	3.8	Dr.	do	do	do	do	5,640
Bro	Kingston M's	5	120	4.6	Sl.	Ho	do	do	do	5,200
oal Co	Peoria	5	60	4.4	Sh.	St.	do	do	do	5,200
& Co.	Peoria	5	50	4.2	do	do	do	do	do	4,260
rew	Chillicothe	7	90	4.6	Dr.	Hd	do	do	do	3,730
'ineburger	Chillicothe	7	90	4.6	do	do	do	do	do	3,640
ght	Chillicothe	7	90	4.6	do	do	do	do	do	3,610
al Co.	Peoria	5	85	4.4	do	Ho	do	do	do	3,460
oal Co.	Peoria	5	85	4.4	Sh.	do	do	do	do	3,240
& Burdett	Pottstown	5	80	4.0	Dr.	do	do	do	do	2,980
ller	Mapleton	5	110	4.4	do	do	do	do	do	2,680
oop. Coal Co.	Orchard M's	5	.....	do	do	do	do	do	do	2,500
ter	Peoria	5	.....	do	do	do	do	do	do	2,400
Block	Peoria	5	.....	do	do	do	do	do	do	1,800
os	Brimfield	6	40	5.0	Sh.	do	do	Hd	do	1,600
Heaton	Brimfield	6	25	5.0	do	do	do	do	do	1,580
& Son	Princeville	6	25	5.0	do	do	do	do	do	1,520
	Monica	6	48	5.0	do	do	do	do	do	1,260
	Peoria	5	.....	do	do	do	do	do	do	1,260
	Peoria	5	.....	do	do	do	do	do	do	1,200
Velsh	Peoria	5	.....	Sh.	St.	do	do	M	do	948
	Orchard M's	5	.....	Dr.	Ho	do	do	do	do	940
Co	Monica	6	50	4.6	Sh.	do	do	Hd	do	840
s	Orchard M's	5	.....	Sl.	do	do	do	do	do	720
s	Reed City	5	.....	do	do	do	do	do	do	640
Co	Peoria	5	.....	do	do	do	do	do	do	620
Bros	Orchard M's	5	.....	do	do	do	do	do	do	560
nn	Hanna City	6	.....	Dr.	do	do	do	do	do	500
s	Monica	6	.....	do	do	do	do	do	do	500
arkson	Edwards	5	85	4.0	do	do	do	do	do	460
mble	Elmwood	6	50	5.0	Sh.	do	do	M	do	430

Table 91—Continued.

**PEORIA COUNTY—Concluded.**

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.									
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—band, mule, cable, electric.	Mine—band, machine, both.		
58	D. T. Sanders & Son .....	Glasford .....	5	90	5.0	Dr.	Ho	P. R.	Hd	Hd		
59	Robert Culbertson .....	Brimfield .....	6	50	5.0	Sh.	do	do	do	do		
60	Clark & Rook .....	Brimfield .....	6	60	5.0	do	do	do	do	do		
61	Daniel Lamay .....	Monica .....	6	40	5.0	do	do	do	do	do		
62	Hand & Ash .....	Laura .....	6	32	5.0	do	do	do	do	do		
63	A. L. Thurman .....	Laura .....	6	20	5.0	do	do	do	do	do		
64	W. E. Doyle .....	Laura .....	6	25	5.0	do	do	do	do	do		
65	H. Durant .....	Brimfield .....	6	30	5.0	do	do	do	do	do		
66	Charles Carroll .....	Duncan .....	6	35	5.0	do	do	do	do	do		
67	E. H. Graves .....	Princeville .....	6	45	5.0	do	do	do	do	do		
68	Harry Green .....	Jubilee .....	6	50	5.0	do	do	do	do	do		
69	E. E. Pratt .....	Jubilee .....	6	55	5.0	do	do	do	do	do		
69 mines .....												

**PERRY COUNTY.**

[illegible]



Table 91—Continued.

## SALINE COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand mule, cable, electric.	Mine—hand, machine, both.
1	Davenport Coal Co.	Ledford	5	144	8.0	Sh.	St.	P.-R.	M	Hd.
2	Clifton Coal Co.	Ledford	5	143	7.0	do	do	do	do	do
3	Gas Coal Co.	Harrisburg	5	120	7.0	do	do	do	do	do
4	Morris Coal Co.	Carriers Mills	...	...	...	...	...	...	...	...
5	Eldorado Coal & Coke Co.	Eldorado	6	40	3.6	do	do	do	Hd.	do
6	Casaway Bros.	Eldorado	6	40	3.6	do	do	do	do	do
7	Jobe Ingram	Harrisburg	5	220	8.0	do	do	do	M	do
8	D. P. Bybee.	Harrisburg	5	143	7.0	do	do	do	do	do
9	Egyptian Coal & Coke Co.	Harrisburg	5	150	7.0	do	do	do	do	do
10	Charles Hart	Cottage Grove	6	25	4.3	Dr.	do	do	Hd.	do
11	Diamond Coal Co.	Harrisburg	5	120	7.0	Sh.	do	do	M	do
12	J. R. Lord	Eldorado	6	40	3.6	do	do	do	Hd.	do
13	S. J. Moore	Cottage Grove	6	18	4.0	Dr.	do	do	do	do
14	James Yates	Cottage Grove	6	23	4.3	do	do	do	do	do
15	R. M. Barry	Cottage Grove	6	18	4.0	do	do	do	do	do
16	Sherman Dixon	Harrisburg	...	...	...	...	...	...	...	...
17	Willis Henson	Harrisburg	...	...	...	...	...	...	...	...
17 mines.....										

## SANGAMON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand mule, cable, electric.	Mine—hand, machine, both.
1	Chi., Wil. & Ver. Coal Co.	Thayer	5	292	7.11	Sh.	St.	P.-R.	E	M
2	Madison Coal Co., No. 6	Divernon	5	318	8.0	do	do	do	do	do
3	Jones & Adams Co.	Springfield	5	250	5.9	do	do	do	do	Hd.
4	Victor Coal Co.	Pawnee	5	324	7.6	do	do	do	M	do
5	Chi.-Virden Coal Co., No. 2	Auburn	5	280	7.6	do	do	do	do	do
6	Springfield C. M. Co., No. 2	Riverton	5	232	5.9	do	do	do	do	do
7	Capitol Cooperative C. Co.	Springfield	5	240	5.9	do	do	do	C	do
8	Springfield C. M. Co., No. 5	Springfield	5	250	5.9	do	do	do	M	do
9	Springfield C. M. Co., No. 4	Springfield	5	245	5.9	do	do	do	do	do
10	Woodside Coal Co.	Springfield	5	250	5.9	do	do	do	do	do
11	Springfield Coop. Coal Co.	Springfield	5	250	5.9	do	do	do	do	do
12	West End Coal Co.	Springfield	5	150	5.9	do	do	do	C	do
13	Springfield C. M. Co., No. 1	Riverton	5	230	5.9	do	do	do	C	do
14	Springfield C. M. Co., No. 3	Springfield	5	250	5.9	do	do	do	M	do
15	Jefferson Coal Co.	Springfield	5	250	5.9	do	do	do	do	do
16	Sangamon Coal Co.	Springfield	5	265	5.9	do	do	do	do	do
17	Auburn & Alton Coal Co.	Auburn	5	268	7.6	do	do	do	do	do
18	Cantrall Cooperative C. Co.	Cantrall	5	213	6.0	do	do	do	do	do
19	Wil. & Springfield Coal Co.	Springfield	5	245	5.9	do	do	do	C	do
20	Wabash Coal Co.	Dawson	5	259	5.0	do	do	do	M	do
21	Spaulding Coal Co., No. 1	Spaulding	5	238	5.9	do	do	do	do	do
22	Chi.-Virden Coal Co., No. 3	Chatham	5	250	7.0	do	do	do	do	do
23	Citizens Coal Mining Co., B	Springfield	5	305	5.4	do	do	do	do	do
24	Williamsville Coal Co.	Selbytown	5	269	5.6	do	do	do	do	do
25	Spaulding Coal Co., No. 2	Bissell	5	220	5.9	do	do	do	do	do
26	Barclay Coal Mining Co.	Barclay	5	249	5.9	do	do	do	E	do
27	Citizens Coal Mining Co., A	Springfield	5	210	5.9	do	do	do	M	do
28	Trutter Coal Co.	Pleasant Pl'ns	5	129	5.6	do	do	do	do	do
29	Lincoln Park Coal Co.	Springfield	5	250	5.9	do	do	do	do	do
30	Tuxhorn Coal Co.	Keys	5	220	5.9	do	do	do	do	do
31	Chi.-Springfield Coal Co.	Springfield	5	225	6.0	do	do	do	do	do
32	Peabody Mining Co.	Sherman	5	201	6.0	do	do	do	do	do
33	J. P. Gordon	Salisbury	5	250	5.9	do	do	do	Hd.	do
34	Island Grove Coal Co.	Berlin	5	185	5.6	do	do	do	do	do
34 mines.....										4.31

Table 91—Continued.

**SCHUYLER COUNTY.**

[illegible]

SCOTT COUNTY.

es & Co.	Winchester.	1	90	2.4	Sh.	St.	P.-R.	M	Hd	..	16, 115
wce	Winchester	1	60	2.6	.do	Ho	.	.	.	.do	1, 383
	Bluffs	1	..	2.6	Dr.	Hd	.do	..	..	.do	1, 234
rry	Exeter	1	25	2.6	Sh.	Ho	.do	..	..	.do	810
m.	Winchester.	1	40	2.6	.do	.do	.do	..	..	.do	804
ire.	Aisey	1	..	2.6	Dr.	Hd	.	.	.	.do	800
es	Winchester.	1	42	2.6	Sh.	.do	.do	..	..	.do	715
	Aisey	1	..	2.6	Dr.	.do	.do	..	..	.do	650
ouse	Chapin	1	..	2.6	.do	.do	.do	..	..	.do	596
ndorf	Chapin	1	40	2.6	Sh.	Ho	.do	..	..	.do	420
Brown	Exeter	1	30	2.6	SL	Hd	.	.	.	.do	310
lman	Bluffs	1	30	2.6	Sh.	Ho	.do	..	..	.do	250
	Exeter	1	32	2.6	.do	.do	.do	..	..	.do	210
	Exeter	1	..	2.6	Dr.	Hd	.do	..	..	.do	180
	Bluffs	1	..	2.6	.do	.do	.do	..	..	.do	175
											24, 652

**SHELBY COUNTY.**

C. M. & M. Co.	Moweagua	5	618	5.4	Sh.	St..	P.-R.	M	M-H.	109,192
al Co.	Tower Hill	5	804	8.0	.do	.do	.do	.do	Hd	10,000
s.	Findlay	14	80	2.4	.do	.do	.do	Hd	.do	5,231
n.	Shelbyville	14	60	2.2	.do	Ho	.do	.do	.do	2,800
l	Shelbyville	14	80	2.2	.do	St..	.do	.do	.do	2,040
l.	Shelbyville	14	70	2.2	.do	Ho	.do	.do	.do	1,320
gher	Mode	14	60	2.4	.do	.do	.do	.do	.do	800
s.	Shelbyville	14	60	2.4	.do	.do	.do	.do	.do	700
ims	Shelbyville	14	60	2.2	.do	.do	.do	.do	.do	200
an	Shelbyville	14	60	2.2	.do	.do	.do	.do	.do	80
haels	Fancher	14	60	2.4	Dr.	Hd	.do	.do	.do	50
										132,413



Table 91—Continued.

## STARK COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Holting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.
1	Wyoming Coal Co., No. 1.	Wyoming	6	124	4.4	Sh.	St.	P.-R.	Hd	Hd
2	Watson & Higbie.	Wyoming	6	106	4.0	do	do	do	do	do
3	S. French	Bradford	6	104	4.6	do	Ho	do	do	do
4	W. B. Ballentine	Toulon	6	...	4.0	Dr.	M.	do	M	do
5	J. M. Robinson	Elmira	6	40	4.6	Sh.	Ho	do	Hd	do
6	John Scott	Wyoming	6	56	4.4	do	do	do	do	do
7	Jesse Savill	Wyoming	6	...	4.0	Dr.	Hd	do	do	do
8	Ben Smith	Wyoming	6	45	4.4	Sh.	Ho	do	do	do
9	John Catton	West Jersey	4	...	4.0	Dr.	Hd	do	do	do
10	B. F. Newton	Bradford	6	117	4.6	Sh.	Ho	do	do	do
11	James Higbee	Wyoming	6	75	4.0	do	do	do	do	do
12	Isaiah King	Wyoming	6	124	4.4	do	do	do	do	do
13	James K. Fuller	Wyoming	6	...	4.0	Dr.	Hd	do	do	do
14	Cahill & Code	Lombardville	6	138	4.6	Sh.	Ho	do	do	do
15	John Thurston	Wyoming	6	30	4.0	do	do	do	do	do
16	Bever Bros	Wyoming	6	76	4.0	do	do	do	do	do
16 mines.			...	...	...	...	...	...	...	...

## ST. CLAIR COUNTY.

1	St. L. & O'Fallon C. Co., No. 1	Belleville	6	100	6.0	Sh.	St.	P.-R.	M	Hd
2	Royal Coal Co., Royal	Belleville	6	190	7.0	do	do	do	do	do
3	Muren Coal & Ice Co., No. 1	Belleville	6	180	7.0	do	do	do	do	do
4	Walnut Hill Coal Co.	Belleville	6	200	7.0	do	do	do	do	do
5	Kolb Coal Co., No. 1.	Mascoutah	6	160	7.0	do	do	do	do	do
6	Superior Coal M'g Co. No. 1	Belleville	6	180	7.0	do	do	do	do	do
7	Madison Coal Co., No. 7	Belleville	6	185	7.0	do	do	do	do	do
8	Jos. Taylor Coal Co., Taylor	O'Fallon	6	200	7.0	do	do	do	do	do
9	Glendale Coal & M. Co., No. 1	Belleville	6	120	7.0	do	do	do	do	do
10	Mo. & Ill. C. Co., Rentchler	Belleville	6	130	7.0	do	do	do	do	do
11	Dutch Hol'w C. Co., Oak'nd	Belleville	6	175	7.0	do	do	do	do	do
12	Borders Coal Co., No. 1.	Marissa	6	114	7.0	do	do	do	do	do
13	Kolb Coal Co., Vinegar Hill	Mascoutah	6	80	7.0	do	do	do	do	do
14	Valley Coal & Mining Co.	East St. Louis.	6	113	7.0	do	do	do	do	do
15	Daniel Zildorph, Marissa	Marissa	6	120	7.0	do	do	do	do	do
16	Joseph Taylor, Mentor	O'Fallon	6	210	7.0	do	do	do	do	do
17	Oak Hill Coal Co.	Belleville	6	187	7.0	do	do	do	do	do
18	Eureka Coal Co., Eureka	Marissa	6	114	7.0	do	do	do	do	do
19	Dutch Hol'w C. Co., Randle	Freeburg	6	150	7.0	do	do	do	do	do
20	Summit Coal Co.	Belleville	6	190	7.0	do	do	do	do	do
21	Tirre Coal & Mining Co.	Lenzburg	6	191	6.0	do	do	do	do	do
22	Belleville & O'Fallon C. Co	Belleville	6	120	6.6	do	do	do	do	do
23	Lebanon Coal & Min. Assn	Lebanon	7	200	5.6	do	do	do	do	do
24	O'Fallon C. M. Co., Darrow	O'Fallon	7	186	5.6	do	do	do	do	do
25	Consol. Coal Co., Shawnee	Belleville	6	125	6.0	do	do	do	do	do
26	Johnson Coal Co., O. K.	Marissa	6	120	7.0	do	do	do	do	do
27	George Hippard, No. 1	Belleville	6	75	7.0	do	do	do	do	do
28	Joseph Guest & Sons	Belleville	6	...	7.0	do	do	do	do	do
29	Wm. Ratigan, Ruby	Caseyville	6	200	6.0	do	do	do	do	do
30	Mo. & Ill. C. Co., Wilderman	Belleville	6	90	6.0	do	do	do	do	do
31	Consol. Coal Co., Green Mt	Belleville	6	160	6.0	do	do	do	do	do
32	Consol. C. Co., White Ck	Marissa	6	175	6.0	do	do	do	do	do
33	Consolidated C. Co., No. 4.	Belleville	6	205	6.0	do	do	do	do	do



Table 91—Continued.

## VERMILION COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.							
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.
1	Kellyville Coal Co., No. 3.	Westville	6	212	7.0	Sh.	St.	P. R.	C. M.	Hd.
2	Westville Coal Co., No. 1.	Westville	6	210	7.0	do	do	do	E. M.	do
3	Kellyville Coal Co.	Himrod	6	168	8.0	do	do	do	M.	H. M.
4	Kellyville Coal Co., No. 4.	Westville	6	90	7.0	do	do	do	do	Hd.
5	Kellyville Coal Co., No. 2.	Kellyville	7	210	7.0	do	do	do	E. M.	do
6	Kellyville Coal Co.	Westville	6	90	8.0	do	do	do	C. M.	do
7	Kellyville Coal Co., No. 5.	Westville	6	90	7.0	do	do	do	M.	do
8	Jones & Adams Co. No. 2.	Catlin	6	168	6.0	do	do	do	E. M.	do
9	Economy Coal Min. Co.	Danville	7	85	6.0	do	do	do	C. M.	do
10	Consolidated Coal Co.	Fairmont	7	208	5.0	do	do	do	M.	do
11	John O'Connell C. Co.	Danville	6	40	7.0	do	do	do	do	do
12	Electric Coal Co.	Danville	7	100	6.0	do	do	do	do	do
13	E. S. Gray, No. 3.	Danville	7	100	6.0	do	do	do	do	do
14	Consolidated Coal Co.	Missionfields	7		6.0	Str.	do	Str.	do	M.
15	Mauck Bros.	Danville	7	60	6.0	Dr.	do	P. R.	do	Hd.
16	Western Brick Co.	Danville	7	50	6.0	Str.	do	do	do	do
17	Westville Coal Co., No. 2.	Westville	6	215	7.0	Sh.	do	do	do	do
18	C. J. White, No. 2.	Grape Creek	6	125	7.0	Sl.	do	do	do	do
19	Stansbury & Watkins	Danville	7	80	6.0	Sh.	Ho	do	Hd.	do
20	S. Parle, No. 2.	Danville	7	90	6.0	do	St.	do	do	do
21	Bunting Bros.	Grape Creek	7	80	6.0	Dr.	Ho	do	M.	do
22	Oakwood Coal Co.	Oakwood	7	80	6.0	Sh.	St.	do	do	do
23	D. A. Jenkins	S. Danville	7	60	6.0	Dr.	Ho	do	do	do
24	E. S. Gray, No. 4.	Oakwood	7	95	6.0	Sh.	St.	do	do	do
25	Star Coal Co., No. 1.	Vandercook	7	60	6.0	Dr.	do	do	do	do
26	F. W. Davis	Muncie	6	200	5.0	Sh.	do	do	do	do
27	Carter Bros.	Danville	7	50	6.0	Dr.	Ho	do	Hd.	do
28	Danville Brick & Tile Co.	Danville	7	60	6.0	do	do	do	do	do
29	France Bros.	Fairmount	7	50	5.0	Sh.	do	do	do	do
30	W. C. Shafer	Danville	7	60	6.0	do	St.	do	do	do
31	Joe Mauck	Danville	7	80	6.0	do	do	do	do	do
32	Miller & Spangler	Danville	7	100	6.0	do	do	do	do	do
33	A. Jones & Sons, No. 1.	Catlin	7	50	5.6	do	Ho	do	do	do
34	James Thomas, No. 1.	S. Danville	7	85	6.0	do	do	do	do	do
35	M. C. Wilkinson, No. 1.	S. Danville	7	60	6.0	Dr.	do	do	do	do
36	Morin & Mobaker, No. 1.	Danville	7	80	6.0	do	do	do	do	do
37	John R. Colburn	Vandercook	7	60	6.0	Sh.	do	do	do	do
38	Hardy Harris C. Co., No. 3.	Fairmont	7	50	5.0	do	do	do	do	do
39	John Bryant	Grape Creek	6	60	7.0	Sl.	do	do	do	do
40	S. M. Hodge & Son	Danville	7	40	5.6	do	do	do	do	do
41	A. H. Bonnett	Collison	7	100	5.6	Sh.	St.	do	M.	do
42	L. S. Miller	Grape Creek	6	10	6.0	Str.	do	do	do	do
43	Joe Baler	Danville	7	60	5.6	Sh.	Ho	do	Hd.	do
44	George W. Fenwick, No. 1.	Danville	6	80	6.0	do	St.	P. R.	do	do
45	J. A. Humme	Danville RR 1	7	60	6.0	Dr.	Ho	do	do	do
46	William Stine	Danville	7	60	6.0	do	do	do	do	do
47	W. A. Shepherd	Catlin	7	80	5.6	do	do	do	do	do
48	John Aldridge	Danville	7	40	5.6	do	do	do	do	do
49	Cantrall & Beeler, No. 1.	Danville RR 1	7	60	6.0	Sl.	St.	do	do	do
50	Blue & Hall	Grape Creek	6	80	7.0	Sh.	Ho	do	do	do
51	Hurd & Webster, No. 1.	Danville	7	60	6.0	do	do	do	do	do
52	Fred Brennerman, No. 1.	Danville	7	60	6.0	Dr.	do	do	do	do
53	Henry J. Dettman	Danville	7	10	6.0	Str.	do	Stp.	do	do
54	M. A. Fredrickson	Danville	7	10	6.0	do	do	do	do	do
55	Samuel Thomas & Bro.	Catlin	7	60	6.0	Sl.	do	P. R.	H.	do
56	Jacob Thompson, No. 2.	Grape Creek	6	60	7.0	do	do	do	do	do
57	Young & Ellis, No. 1.	Danville RR 1	7	80	6.0	do	do	do	do	do



Table 91—Concluded.

## WILLIAMSON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINES.								T. ft.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Holting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Big Muddy C. & I. Co., No. 7	Herrin	7	140	9.0	Sh.	St.	P. R.	E.	Hd.	41
2	Sunnyside Coal Co., No. 1.	Herrin	7	145	9.0	do	do	do	M.	do	34
3	Chi. & Carterville C. Co., 1.	Herrin	7	180	9.0	do	do	do	do	H. M	34
4	St. L. & B. M. C. C., Dawes	Dewmaine	7	90	9.0	do	do	do	E.	Hd.	22
5	So. Ill. C. M. & W. Co., No. 3	Marion	7	102	9.0	do	do	do	M.	H. M	19
6	New Virginia Coal Co., No. 1	Lake Creek	7	119	8.0	do	do	do	do	Hd.	16
7	So. Ill. C. M. & W. Co., No. 2	Marion	7	80	9.0	do	do	do	do	H. M	15
8	Chicago-Herrin Coal Co.	Herrin	7	161	9.0	do	do	do	do	Hd.	14
9	Chi. & B. M. C. & C. Co., 1.	Marion	7	81	9.0	do	do	do	do	do	12
10	Williamson Co. Coal Co.	Lake Creek	7	150	9.0	do	do	do	do	do	12
11	Johnson City & B. M. C. C.	Lake Creek	7	208	9.0	do	do	do	do	H. M	12
12	Carterville Coal Co., Burr.	Carterville	7	60	9.0	do	do	do	do	Hd.	11
13	New Ohio Washed C. C., 1.	Carterville	7	65	9.0	do	do	do	do	do	11
14	Carterville District Coal Co.	Marion	7	94	8.0	do	do	do	do	M.	10
15	Carterville Coal Co., No. 2.	Carterville	7	90	9.0	do	do	do	do	Hd.	8
16	Donaly-Koencke Coal Co.	Carterville	7	110	9.0	do	do	do	do	do	7
17	Robert Dick Coal Co.	Carterville	7	81	9.0	do	do	do	do	do	6
18	Carterville & B. M. C. C.	Lauder	7	80	9.0	do	do	do	do	do	2
19	West. Coal & M. Co., No. 1	Bush	7	94	8.0	do	do	do	do	do	1
20	Chicago & Marion Coal Co.	Marion	7	161	9.0	do	do	do	do	do	1
21	Carterville Mining Co.	Herrin	7	165	9.0	do	do	do	do	do	1
22	Carterville & Herrin C. C.	Herrin	7	30	9.0	do	do	do	do	do	
23	M. Hampton	Carterville	7	40	7.0	do	do	do	do	do	
24	Adam Young	Carterville	6	9.0	do	do	do	do	do	do	
25	St. Louis-Carterville C. C.	Herrin	7	80	7.0	do	do	do	do	do	
26	Carterville Diamond Co.	Carterville	7	20	5.6	Dr.	Ho	do	do	do	
27	Spitler & Whitecotton	Crab Orchard	6	25	5.6	do	do	do	do	do	
28	E. E. Ensminger	Crab Orchard	6	22	5.6	do	do	do	do	do	
29	Motsinger Bros.	Crab Orchard	6	10	9.0	Sl.	do	do	do	do	
30	Geo. Wilson	Marion	7	30	9.0	Sh.	St.	do	do	do	
31	Albert Absher	Absher	7	40	7.0	do	do	do	do	do	
32	W. J. Powell	Carterville	6	20	5.6	Dr.	Ho	do	do	do	
33	Reese & Crain	Carterville	6	20	5.6	Dr.	Ho	do	do	do	
34	Frank Harris	Crab Orchard	6	22	5.6	Dr.	Ho	do	do	do	
35	Thomas Parrett	Carterville	6	22	5.6	Dr.	Ho	do	do	do	
36	W. S. Tarpley	Crab Orchard	6	22	5.6	Dr.	Ho	do	do	do	
37	Watson Coal Co.	Carterville	6	22	5.6	Dr.	Ho	do	do	do	
37 mines											3,000

## WOODFORD COUNTY.

1	Roanoke Coal Mining Co.	Roanoke	2	480	2.6	Sh.	St.	L. W.	M	Hd	11
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TABLE 92—*Summary of the Physical Character of the Coal Mines of the State, Geological Number of Seam, Manner of Working, Kind of Openings and Tons Produced.*

Geological number of seam.	Number of counties.	Number of mines.	MANNER OF WORKING.			CHARACTER OF OPENING.				Tons.
			Long wall.	Pillar and room.	Strip.	Shaft.	Slope.	Drift.	Strip.	
1	13	68	1	66	1	40	8	19	1	882,541
2	20	196	45	150	1	76	27	92	1	5,764,458
3	2	11	.....	11	.....	6	1	4	.....	13,304
4	1	1	.....	1	.....	.....	.....	1	.....	1,772
5	22	238	5	233	.....	175	23	40	.....	12,401,856
6	19	267	.....	267	.....	209	24	32	2	12,682,392
7	12	123	1	119	3	80	10	30	3	5,183,081
14	1	9	.....	9	.....	8	.....	1	.....	13,221
ocket...	3	10	.....	9	1	2	6	1	1	12,758
ot given	3	9	.....	.....	.....	.....	.....	.....	.....	122,514
Totals..	.....	932	52	865	6	596	99	220	8	37,077,897

NOTE—Nine mines whose tonnage is given do not give geological number of seam, manner of working nor character of opening.

## HISTORICAL.

THE STATE BOARD OF EXAMINERS,  
THE STATE MINING BOARD,  
THE STATE INSPECTORS OF MINES,  
1883-1904.

The mining laws of 1879 were amended by the Thirty-third General Assembly, 1883, among which were provisions for dividing the State into five inspection districts, naming the counties composing each district; creating a Board of Examiners, composed of two practical coal miners, two coal operators and one mining engineer, to be appointed by the Bureau of Labor Statistics of this State; the compensation of the members to be \$3.00 per day each, but not to exceed \$30.00 per annum and traveling expenses. The duty of the Board of Examiners was to recommend to the Governor for appointment five qualified persons to fill the offices of inspectors of coal mines of the State, being one for each district; the commissions of such inspectors to be for the term of one year. The first Board of Examiners, appointed by the Bureau of Labor Statistics, was composed of W. H. Emerson, president, coal operator, Astoria; John Maule, coal operator, Belleville; John Dixon, coal miner, Springfield; George Neilson, coal miner, Springfield; W. S. Cherry, mining engineer, Streator; John S. Lord, secretary of the Bureau of Labor Statistics, secretary. The board met at the State capital, August 16, 1883. At this meeting rules and regulations were formulated to govern at the examination for inspectors.

The first meeting for the examination was called to be held at Springfield Sept. 3, 1883; 32 candidates appeared to take the examination; those present represented 22 counties of the State; both day and night sessions were held for five days. The board established a rating a minimum of 75 per cent; only four of the 32 candidates passed the requisite percentage. These four were certified to the Governor for appointment, with the statement that an adjourned session of the board would be held Oct. 10, 1883, for further examination and recommendation. At this meeting of the board nine candidates appeared for examination, three of whom received the necessary ra-

ting, making in all seven persons, all of whom received certificates of competency and were recommended to the Governor as being qualified for appointment as State Inspectors of Mines. The following is a list of those who successfully passed the examination:

Walton Rutledge.....	Alton	James P. Cumming.....	Braceville
Alexander Ronald.....	Streator	William Atkinson.....	Braceville
Thomas Hudson.....	Galva	Thomas S. Cumming.....	Gardner
Robert Winning.....	Cartersville		

From this number the following were appointed as the first State Inspectors of Coal Mines in Illinois:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James P. Cumming.....	Braceville.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Cartersville.....

The second Board of Examiners assembled at the State capital, as required by law, the first week in September, 1884, and was composed of the following members: Alfred W. Perry, president, Geneseo, Henry Wood, Girard, coal operators; Alexander McDonald, Alton, John Keay, LaSalle, coal miners; W. S. Cherry, Streator, mining engineer; John S. Lord, secretary. At this meeting 11 candidates were present, four of whom were State Inspectors, whose terms would expire Oct. 1, 1884. Of the number taking the examination, five attained the required percentage and were certified to the Governor for appointment.

The following were appointed and commissioned as State Inspectors of Coal Mines for one year from Oct. 1, 1884:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	John Rollo.....	Streator.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Cartersville.....

The provisions of the mining law relating to the Board of Examiners and State Inspectors were amended by the 34th General Assembly (1885), making the date of the examinations the second week in September and the term of office two years for the Board of Examiners and for the State Inspectors.

The third examination was therefore called for the second week in September, 1885. The board consisted of General James S. Martin, president, Sandoval; H. E. Hamilton, Fairbury, coal operators; Alexander McDonald, Alton, John Harper, Colchester; coal miners; Jasper Johnson, LaSalle, mining engineer; John S. Lord, secretary. At this examination twenty candidates appeared before the board, eight of whom passed the technical qualifications satisfactorily to the



board. The following secured the required credits and were certified to the Governor as having special fitness for the office of State Inspector of Mines:

Robert Winning.....	Carterville	Thomas Hudson.....	Galva
John Keay.....	La Salle	Alexander Ronald.....	Streator
Walton Rutledge.....	Alton	John G. Massie.....	Peoria
James Freer.....	Streator	Quintin Clark.....	Carterville

From the foregoing list the Governor appointed and commissioned the following as State Inspectors for a term of two years:

First District.....	Alexander Ronald.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Streator.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	Robert Winning.....	Carterville.....

The fourth examination for inspectors was held at Springfield the second week in September, 1887. The board of examiners consisted of H. H. Beach, president, Litchfield; A. W. Boyden, Sheffield, coal operators; Daniel McLaughlin, Braidwood, James Kirby, Braidwood coal miners; Hugh Murray, Ava; mining engineer. Daniel McLaughlin was elected as president, and John S. Lord as secretary.

At this meeting seventeen candidates registered for the examination; the result showing that nine of these had passed successfully the standard of proficiency established by the board, as follows:

Walton Rutledge.....	Alton	W. W. Williams.....	Streator
Thomas Hudson.....	Galva	William Lewis.....	Streator
James Freer.....	Peoria	John Vose.....	Streator
Quintin Clark.....	Braidwood	Thomas J. Logan.....	Streator
James Taylor.....	Edwards		

The board issued certificates of competency to all of these persons and reported them to the Governor as qualified for inspectors, and at the same time specially recommended the appointment of the following for commissions:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	James Taylor.....	Edwards.....

The five persons last named were appointed, and duly commissioned as State Inspectors for two years from October 1, 1887.

The fifth examination was held at the State Capitol, beginning September 10, 1889. This board consisted of David Ross, president, Oglesby; J. D. Courtney, St. John; coal miners; George C. Simpson, Gillespie; William Wilms, Springfield; coal operators; Hugh Murray, Sparta; mining engineer; John S. Lord, secretary. At this meeting seventeen candidates registered to take the examination. At the close of the examination, it was found from the ratings established that seven of the candidates had attained the requisite percentages and certificates of competency were issued as follows:

James Freer.....	Peoria	Walton Rutledge.....	Alton
Quintin Clark.....	Braidwood	Elisha Beadle.....	Kewanee
Thomas Hudson.....	Galva	James Taylor.....	Ashley
James Keay.....	Streator		

From these the Governor appointed and commissioned the following as inspectors of the several districts for two years:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	James Taylor.....	Ashley.....

The sixth examination was held in the State House, Springfield, beginning September 14, 1891. The members of the board, appointed by the Commissioners of Labor, were as follows: Richard Ramsey, president, Braceville; George C. Simpson, Springfield; coal operators; William Scaife, Coal City; John F. Goalby, Gillespie; coal miners; Hugh Murray, Sparta; mining engineer; J. D. Roper of the Bureau of Labor, secretary. The resignation of James Taylor, inspector of the Fifth District, was presented late in the fiscal year 1890 and accepted. Elisha Beadle, Kewanee, was appointed inspector as his successor, to serve until October 1, 1890.

The Board of Examiners met at the State Capitol, Aug. 3, 1891, this being a preliminary meeting for the purpose of organization and the adoption of rules and regulations to govern at the examination. One of the rules adopted, provided that each member of the board submit, on the day preceding the examination, a list of questions deemed suitable to be used for the written examination of candidates. From these lists the board would select and agree on a final list to be submitted to candidates. Another rule adopted was that all persons seeking appointment as inspectors must appear before this board, notwithstanding they may have passed former examinations, or may have served as inspectors. At the regular meeting of the board, candidates appeared to take the examination. In summing up the credits of proficiency shown by the several candidates it was found that 11 had successfully passed the required percentages, as follows:

Walton Rutledge.....	Alton	Thomas Hudson.....	Galva
James Freer.....	Peoria	John S. Wilson.....	Peoria
William G. Massie.....	Marissa	*Arthur Hay.....	Springfield
Elisha Beadle.....	Ashley	Thomas J. Logan.....	Streator
James Keay.....	Springfield	Thomas Weeks.....	Hallowayville
Quintin Clark.....	Braidwood		

\*A modified certificate issued.

The board, from those who had passed the examination, recommended to the Governor the the following persons, who were appointed and commissioned as inspectors for two years:

First District.....	Quintin Clark.....	Braidwood.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Freer.....	Peoria.....
Fourth District.....	Walton Rutledge.....	Alton.....
Fifth District.....	John G. Massie.....	Marissa.....

The Thirty-seventh General Assembly, 1891, increased and extended the duties of the Board of Examiners, by the passage of an act to take effect Jan. 1, 1892, intended to establish a standard of qualification for mine managers at all mines where the output is more than 25 tons a day. The law provided that all persons occupying such positions shall submit to an examination and hold certificates of competency or service, issued by the board. The meetings of the Board of Examiners, under this law, were to be held at such times and places as may be decided by the board; the compensation of the members to be \$3.00 a day, not to exceed 80 days in any year.

The seventh meeting of the Board of Examiners for the examination of candidates for State inspectors was held at Springfield, beginning Sept. 11, 1893; a preliminary meeting having been held July 13, 1893. The members of this board were: Patrick Meehan, president, Breeds; J. M. Browning, Duquoin; coal operators: George Evans, Lincoln; William McDonald, Braidwood; coal miners: J. E. Crane, Murphysboro, mining engineer; Bethune Dishon, secretary. Twenty-five candidates registered for examination. At the conclusion of the meeting it was found that 13 of the class had attained the required rating, as follows:

Walton Rutledge.....	Alton	T. S. Cumming.....	Gardner
Thomas Hudson.....	Galva	James A. Keating.....	Lincoln
Thomas Weeks.....	Streator	David Beveridge.....	Sorento
James Freer.....	Peoria	Henry E. Malloy.....	Decatur
Edward Fellows.....	Streator	John Keay.....	Springfield
Hugh J. Hughes.....	Litchfield	Henry Bangart.....	Lincoln
John G. Massie.....	Belleville		

To all of these certificates of competency were issued and the board reported the names to the Governor. From this list the following were appointed and commissioned as State inspectors of mines for two years:

First District.....	Thomas S. Cumming.....	Gardner.....
Second District.....	Edward Fellows.....	Streator.....
Third District.....	James A. Keating.....	Lincoln.....
Fourth District.....	John Keay.....	Springfield.....
Fifth District.....	Hugh J. Hughes.....	Litchfield.....

The Thirty-ninth General Assembly, 1895, further amended the mining laws, which imposed additional duties on the mining board and also increased the duties of the State inspectors of mines. One of the provisions enacted was that all persons assuming to discharge the duties of hoisting engineer or fire-boss at coal mines after July 1, 1896, should pass an examination before the State Board of Examiners.

and hold a certificate of competency issued by the board. The State was divided into seven inspection districts, thus increasing the number of State inspectors to seven instead of five, and also providing that all mines be inspected at least four times a year, and a fee ranging from six to ten dollars be assessed against each mine for these inspections. The State inspectors were also charged with the inspection of oil used in the coal mines of the State, and of scales used at the mines for weighing coal.

The eighth meeting of the Board of Examiners was held in Springfield, beginning October 12, 1895. The records do not show why this examination was held one month after the date provided by law. This board consisted of John M. Browning, president, Duquoin; Louis F. Lumaghi, Collinsville; coal operators; William McDonald Braidwood; Louis A. Graham, Jacksonville; coal miners: John E. Crane, Murphysboro; mining engineer: Bethune Dishon, secretary. Nineteen persons registered to enter the examination. When the rating established by the board had been summed up, it was found that thirteen of the candidates had attained the proper percentages, as follows:

Robert Winning.....	Carterville	Charles Duncan.....	Streator
James Bennett.....	Hallidayboro	Edward Fellows.....	Streator
James Keay.....	Springfield	Robert Pickett.....	Canton
Hugh J. Hughes.....	Litchfield	Henry Malloy.....	Decatur
D. L. Jones.....	Taylorville	James H. Beatty.....	Mascoutah
Thomas S. Cumming.....	Gardner	Alfred C. Blake.....	Oakwood
James A. Keating.....	Lincoln		

From this list the following were appointed and commissioned by the Governor as inspectors of mines for the several districts for two years, from October 1, 1895, as follows:

First District.....	James A. Keating.....	Streator.....
Second District.....	Charles Duncan.....	Galva.....
Third District.....	Robert Pickett.....	Canton.....
Fourth District.....	Henry E. Malloy.....	Danville.....
Fifth District.....	John Keay.....	Springfield.....
Sixth District.....	Thomas S. Cumming.....	Belleville.....
Seventh District.....	James B. B nnett.....	Centralia.....

The Commissioners of Labor, in February, 1897, selected and appointed the following persons as the Board of Examiners: Richard Ramsay, Braceville; William Cruikshanks, Middle Grove; coal operators; John R. Thomas, Ladd; Thomas Haddow, Pana; coal miners: Hugh Murray, Sparta; mining engineer. This board met in Springfield, February 23, 1897, and organized by electing Richard Ramsay, president, and Eben Howells, secretary.

A meeting of the board was called for March 8, following, for the examination of State inspectors, the inspectors of the second, fifth and seventh districts having resigned.

The Board of Examiners met March 8, 1897, pursuant to the call, this being the first special meeting of the board. Owing to the illness of Hugh Murray, M. E., at the date of this meeting, the services of Thomas Stockett, Jr., M. E., of St. Louis, Missouri, were secured.

At this meeting 32 candidates were registered. Of this number the following 20 persons gained the required percentages and were granted certificates of competency:

Walton Rutledge.....	Alton	John E. Williams.....	Grape Creek
Thomas Hudson.....	Galva	Evan D. John.....	Barclay
Quintin Clark.....	Chicago	J. L. Swanberg.....	Danville
James Freer.....	Peoria	Samuel Simpkins.....	Streator
J. H. Beatty.....	Mascoutah	John Dunlop.....	Centralia
Alexander Skinner.....	Diamond	John Garrity.....	Riverton
James Taylor.....	Edwards	A. C. Blake.....	East Peoria
Thomas Weeks.....	Colfax	William Donaldson.....	Kangley
Leo Gluck.....	Chicago	John Duddy.....	Pana
John G. Massie.....	Belleville	David McCrindle.....	Oglesby

From this number the Governor appointed and commissioned the following persons to fill the vacancies for the unexpired terms:

Second District.....	Thomas Hudson.....	Galva.....
Fifth District.....	Walton Rutledge.....	Alton.....
Seventh District.....	Evan D. John.....	Carbondale.....

The ninth regular meeting of the Board of Examiners for the examination of candidates for State Inspectors of Mines was held in Springfield, beginning Sept. 13, 1897. The resignation of John R. Thomas, miner, Ladd, having been presented to the Commissioners of Labor, Cochran Johnston was named as his successor. The members present at this meeting were: Richard Ramsey, president, operator, Braceville; Wm. Cruikshanks, operator, Middle Grove; Cochran Johnston, miner, Spring Valley; Thomas Haddow, miner, Pana; Hugh Murray, M. E., Sparta; Eben Howells, secretary, Braceville. Twenty-three candidates registered for this examination. At the conclusion of this examination it was found that 16 of the candidates had attained the proficiency established by the board as follows:

Walton Rutledge.....	Alton	Evan D. John.....	Carbondale
Thomas Hudson.....	Galva	Thomas Weeks.....	Colfax
James Freer.....	Chenoa	Alexander Skinner.....	Diamond
James Taylor.....	Edwards	Robert Pickett.....	Spring Valley
Alfred C. Blake.....	East Peoria	J. L. Swanberg.....	Danville
John Dunlop.....	Centralia	John E. Williams.....	Westville
T. S. Cumming.....	Belleville	John W. Graham.....	Dunfermline
Quintin Clark.....	Chicago	Hector McAllister.....	Streator

To each of the aforementioned persons certificates of competency were issued by the board, and all of them reported to the Governor as qualified for the office of Inspectors of Mines. From the foregoing list the Governor appointed and commissioned the following as State Inspectors for two years from Oct. 1, 1897:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	John W. Graham.....	Dunfermline.....
Fourth District.....	John E. Williams.....	Danville.....
Fifth District.....	Walton Rutledge.....	Alton.....
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale.....

The Commissioners of Labor called a meeting of the Board of Examiners to be held in Springfield, March 1, 1898, for reorganization. This meeting was made necessary by the death of Richard Ramsay, operator, president of the board, which occurred at his home in Braceville, Ill., Jan. 16, 1898; also by the resignation of Thomas Haddow, miner, Pana, and William Cruikshanks, operator, Middle Grove. The Commissioners of Labor having selected the following persons to fill these vacancies: Richard Newsam, operator, Peoria; James Taylor, operator, Edwards, and Patrick McCann, miner, Lincoln. This Board of Examiners met March 1, 1898, and was organized as follows: Richard Newsam, president, Peoria; James Taylor, Edwards; operators; Cochran Johnston, Spring Valley; Patrick McCann, Lincoln, miners; Hugh Murray, M. E., Sparta; Eben Howells, secretary, Braceville.

At this meeting the following resolutions in memory of Richard Ramsay, late president of the board, was presented and adopted:

WHEREAS, By his ability, the standard and efficiency of this board has been raised to a condition not previously attained, and

WHEREAS, The deceased, by his wide knowledge of mining matters, practical and theoretical, and his aptness and ability in imparting such knowledge to the other members of the board, to the State Inspectors of Mines, and to others with whom he came in contact, was a most valued and competent presiding officer of this board; therefore

*Resolved*, That we pay a just and fitting tribute to his ability and memory when we mourn for him as one in every way worthy of our respect and esteem.

*Resolved*, That we sincerely condole with the widow and family of the deceased, and commend them to the keeping of Him who looks with tenderness on the widow and fatherless.

*Resolved*, That these resolutions be spread upon the records of this board, and that copies of the same be forwarded to the widow of our lamented friend, to the editor of the "Black Diamond" and to the newspapers of the State.

The Forty-first General Assembly, 1899, revised and enacted an entirely new law relating to mines and mining, which was prepared by the Bureau of Labor. Among the provisions of this law was the creating of a State Mining Board, to be appointed by the Commissioners of Labor, the board to consist of five members, two of the members to be practical coal miners, one an expert mining engineer, who shall, when practicable, be also a hoisting engineer, and two coal operators. The date of appointment to be from July 1, 1899, for two years, or until their successors are appointed and qualified. This board was to organize by electing one of its members as president, and a suitable person not a member as secretary. A meeting of the board was required to be held the second Tuesday in September, 1899, and biennially thereafter for the examination of candidates for State Inspectors of Mines, also to hold meetings at such times and places, within the State, as they might select, for the examination of candidates for certificates as mine managers, hoisting engineers and mine examiners. This law also provided that any one who had heretofore satisfactorily passed two of the State examinations for inspectors, and who had served acceptably as State inspector for two full terms, upon making written application to the board, shall be certified to the Governor as qualified for appointment as State Inspector.

The Commissioners of Labor called a meeting of the old mining board to meet in Springfield, July 1, 1899, for reorganization under the new law; all of the members reported as follows: Richard Newsam, Peoria; Hugh Murray, Nashville; James Taylor, Edwards; Patrick McCann, Lincoln; Cochran Johnson, Spring Valley.

The Commissioners of Labor designated the members of the mining board, to constitute the State Mining Board as provided under the law. The board met in special meeting (second special meeting) at Springfield, July 1, 1899, and organized by electing Richard Newsam, Peoria, president; Eben Howells, secretary, and Hugh Murray, mining engineer.

The ninth regular meeting of the board for the examination of State Inspectors, was held at the capital, September 12, 1899, all the members being present. At this meeting eight candidates registered. At the conclusion of this examination, it was found that the entire class had obtained the rating established by the board, as follows:

Thomas Hudson.....Galva	John E. Williams.....Danville
Walton Rutledge.....Alton	Hector McAllister.....Streator
Evan D. John.....Carbondale	John W. Graham.....Dunfermline
John Dunlop.....Centralia	David Wilson.....Spring Valley

The foregoing persons were duly reported to the Governor as being eligible for appointment as State Inspectors; excepting, however, David Wilson, who was not then a naturalized citizen of the State.

At a subsequent meeting, held Sept. 26, 1899, the board of examiners, reported to the Governor that David Wilson had completed his citizenship, also that James Freer, Peoria, had applied for the position as State Inspector, he having passed two former examinations, and served two terms as State Inspector. From the list of names reported by the board, the Governor appointed and commissioned the following as State Inspectors of Mines for two years from Oct. 1, 1899:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	John W. Graham.....	Canton.....
Fourth District.....	John E. Williams.....	Danville.....
Fifth District.....	Walton Rutledge.....	Alton.....
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale.....

The term of office of the State Mining Board having expired July 1, 1901, the Commissioners of Labor having named a new board for one year from July 1, 1901, as follows: Richard Newsam, Peoria; Lee Kincaid, Athens, operators; William Atkinson, Murphysboro; Daniel Reece, Danville, miners; Hugh Murray, Nashville, mining engineer; called a meeting of these persons to be held in Springfield, Aug. 22, 1901.

At this meeting the mining board met and organized by electing Richard Newsam president, and Eben Howells secretary.

The meeting of the board for the examination of candidates for State Inspectors of Mines, was called to be held at Springfield, Sept. 9, 1901.

The board met conformable to the call. Twenty applicants registered, eight of whom made application to the board to be certified to the Governor for appointment, under the provision of the law, having passed previous examinations, and served as State Inspectors for two years. At the close of this examination, and summing up of the credits, it was found that James Taylor, Edwards, and Thomas Weeks, Colfax, had passed the required percentage established by the board. The following had filed their applications to be certified to the Governor, having passed two former examinations, and served two full terms as State Inspectors:

James Freer, Peoria.....	John E. Williams, Danville.....
Thomas Hudson, Galva.....	Evan D. John, Carbondale.....
Hector McAllister, Streator.....	John W. Graham, Canton.....
Walton Rutledge, Alton.....	John Dunlop, Centralia.....

All of these were reported to the Governor as qualified to perform the duties of State Inspectors of Mines. From this list of persons, the following were appointed and commissioned as State Inspectors for two years from October 1, 1901:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Taylor.....	Peoria.....
Fourth District.....	Thomas Weeks.....	Bloomington.....
Fifth District.....	Walton Rutledge.....	Alton.....
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale.....

At the meet of the Mining Board, Jan. 12, 1903, it was advised of the death of Eben Howells, secretary, which occurred at his home in Springfield, Dec. 27, 1902. The board at once appointed two of its members to draft resolutions on the death of Mr. Howells; also appoint Miss Jane L. Ross, secretary pro tem. The following resolutions were presented and adopted by the board at its meeting held Feb. 17, 1903.

WHEREAS, Our esteemed late Secretary Mr. Ebenezer Howells, has been removed by death, and

WHEREAS, His honorable and efficient services, in connection with the Mining Board, affords us an opportunity of acknowledging our appreciation of him, both in his official and private life. Therefore be it

*Resolved*, That our feeling the resignation due towards the manifestation of Divine Providence and humbly accepting this dispensation from the Giver of Life, we wish to express our conviction that in his death the Mining Board sustains a severe loss and the State that of an honorable and faithful official.

At a meeting of the board held at Springfield, April 27, 1903, Eugene A. Pearse, Jacksonville, was elected secretary of the board.

The Mining Board, at a meeting held Aug. 18, 1903, at Springfield, called a meeting to be held in the State House, Sept. 8, 1903, for the examination of candidates for appointment as State Inspectors. The board met pursuant to the call, Sept. 8, 1903. Hugh Murray, Mining engineer, member of the board, having resigned, the Commissioners of Labor appointed as his successors Andrew Flesher, Taylorville, hoisting engineer. The organization of the board for two years was then perfected, as follows: Richard Newsam, Peoria, president and



mining engineer; Eugene A. Pearse, Jacksonville, secretary. At this meeting ten candidates registered for examination. At the close of the examination, seven candidates succeeded in attaining the required percentages established by the board as follows:

James Taylor, Peoria.....	Evan D. John, Carbondale.....
Thomas Weeks, Bloomington.....	John Dunlop, Centralia.....
Walton Rutledge, Alton.....	Thomas Hudson, Galva.....
Hector McAllister, Streator.....	

These were certified by the board to the Governor as qualified for the position of State Inspectors of Mines. The Governor subsequently appointed and commissioned them as inspectors for two years as follows:

First District.....	Hector McAllister.....	Streator.....
Second District.....	Thomas Hudson.....	Galva.....
Third District.....	James Taylor.....	Peoria.....
Fourth District.....	Thomas Weeks.....	Bloomington.....
Fifth District.....	Walton Rutledge.....	Alton.....
Sixth District.....	John Dunlop.....	Centralia.....
Seventh District.....	Evan D. John.....	Carbondale.....

The resignation of Evan D. John, State Inspector of the Seventh District, was made to the Governor to take effect July 1, 1904.

The Mining Board called a special meeting for an examination of candidates for appointment to fill the vacancy, caused by the resignation of Inspector John, to be held July 13, 1904. This was the third special meeting of the board. Two candidates registered for the examination. At the conclusion of the examination, it was found that only one of the candidates, William Atkinson, Murphysboro, had secured the required rating fixed by the board, and he was duly certified to the Governor. The Governor appointed and commissioned Mr. Atkinson\*, State Inspector for the Seventh District, to serve the unexpired term to Oct. 1, 1905.

The resignation of E. A. Pearse as secretary of the mining board was accepted at a meeting held Nov. 14, 1904, and Thomas Moses Westville was elected as his successor.

\*William Atkinson, State Inspector of Mines, Seventh District, was killed in the mine at Zeigler, Illinois, April 3, 1905, his death was caused by inhaling after-damp.

## FIRST INSPECTION DISTRICT—1904.

### TWENTY-FIRST ANNUAL REPORT.

Counties—Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR MCALLISTER, *Inspector, Streator.*

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with section 12 of an act of the General Assembly of the State of Illinois, defining the duties of the State inspectors of coal mines, and providing for the health and safety of persons employed therein, I herewith submit the twenty-first annual report of coal mines in the first inspection district for the year ended June 30, 1904.

The district includes the coal producing counties of Grundy, Kankakee, LaSalle, Livingston and Will. The report contains tabulated statements, showing the number of mines in operation, both shipping and local; the depth of the shafts; thickness and geological number of the different seams; the number of new and abandoned mines; the total number of persons employed at each mine; the tons of lump and other grades of coal produced; the price per ton paid for mining; the value of lump and other grades of coal per ton at the mine and the aggregate value of the total product; the number of kegs of powder and the number of pounds of dynamite consumed; the number of steam boilers in use at the plants; the name and size of fan of each shaft; the casualties in and around the mines, both fatal and non-fatal; the number of wives made widows, and children left fatherless, caused by fatal accidents, also the number of days of active operation of all mines in the district.

The following is a summary for all the counties in the district:

Total number of mines .....	88
Number of shipping mines.....	41
Number of local mines .....	47
Number of new mines.....	20
Number of abandoned mines.....	6
Number of miners .....	5,840
Number of others underground.....	1,307
Number of boys underground.....	220
Number of employes above ground.....	671
Total number of employes.....	8,038
Total tons of coal produced, all grades.....	3,450,315
Total tons of mine run.....	400,983
Total tons of lump.....	1,958,400
Total tons of egg.....	246,530
Total tons of nut.....	103,694
Total tons of screenings.....	686,081
Total tons of slack, burned or wasted.....	53,677
Average value per ton of mine run at the mine, shipping mines.....	\$1.713
Average value per ton of lump.....	\$1.714
Average value per ton of egg.....	\$1.775
Average value per ton of nut.....	\$1.488
Average value per ton of screenings.....	\$0.531
Average value per ton of slack or waste.....	\$0.277
Aggregate value of the total product.....	\$4,811,973

Average price paid per gross ton for hand mining, shipping mines .....	\$0.778
Average number of days of active operation .....	208
Number of kegs of powder used .....	38,629
Number of pounds of dynamite used .....	30,017
Number of steam boilers in use at mines, horizontal .....	145
Number of fans in use at mines .....	39
Tons of coal shipped from the mines .....	2,731,845
Tons supplied to locomotives .....	170,746
Tons sold to the local trade .....	263,620
Tons consumed and wasted at the plants .....	284,104
Number of fatal accidents .....	13
Number of non-fatal accidents .....	70
Number of wives made widows .....	9
Number of children left fatherless .....	22
Tons of coal mined to each fatal accident .....	265,409
Tons of coal mined to each non-fatal accident .....	49,230
Number of employes to each fatal accident .....	618
Number of employes to each non-fatal accident .....	115
Rate of fatal accidents to 1,000 persons employed .....	1.6

*The following statement gives the coal production, by counties in the First district, with the increase or decrease in each, for the years ended June 30, 1903 and 1904.*

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1903	1904		
Grundy .....	1,457,935	1,405,158	.....	52,777
Kankakee .....	58,195	53,405	.....	4,790
LaSalle .....	1,877,555	1,773,189	.....	104,366
Livingston .....	319,350	150,467	.....	168,883
Will .....	35,616	68,096	32,480	.....
Total .....	3,748,651	3,450,315	32,480	330,316
Net decrease .....	.....	.....	.....	298,336

The counties of Grundy, Kankakee, LaSalle and Livingston show a decrease in output of 330,316 as compared with the output of 1903. Will county shows an increase of 32,480 tons over that of 1903, leaving a net decrease for the district of 298,336 tons. The cause of the falling off in LaSalle county is largely due to the upper seams, of the Chicago, Wilmington and Vermillion Coal Co. at Streator, having been abandoned; the same may be said as to Livingston county, as both of the old mines at Pontiac in this county have been closed down.

#### NEW MINES.

The Chicago, Wilmington & Vermillion Coal Co., of Streator, LaSalle county, has abandoned the upper seam at its No. 2 mine, and sunk the hoisting shaft from the upper to the lower seam, a distance of 120 feet, making the total depth from the surface 245 feet; thickness of coal 3 1-2 feet, being No. 3 seam; it will be opened out on the long-wall system. The tower has also been remodeled, and the old second motion engine has been replaced by a pair of Danville first motion engines, size of cylinder 20x36.

The Home Coal Co., of Streator, LaSalle county, has opened out a new mine inside of city limits, both hoisting and escape shafts have been sunk to No. 7 seam; a switch has been put in from the Wabash Railroad.

The following four new mines have been opened out near Streator, LaSalle county: Joe Sowerby & Co., Thomas & Durham, Nelson & Stokes and Evans Bros. Mounts Bros. have also sunk a shaft near the surface of workings for an air and pumping shaft.

Felton & Voight have opened out the old mine two and a half miles north of Wilsman, formerly operated by Reed Bros., in LaSalle county. They have also sunk a new air shaft.

Mat White has opened a new mine southwest of Ottawa, LaSalle county.

Brookers Bros. have opened a new mine at Lowell, LaSalle county.

The Star Coal Co. of Kangley, LaSalle county, has sunk a new shaft near its No. 2 mine to No. 2 seam of the geological section. This mine will be opened out on the long-wall system.

The Brady Coal Co., Pontiac, Livingston county, has sunk a new shaft to No. 5 seam, one-fourth of a mile north of that city. It is located on the Illinois Central Railroad.

The Johnson Co-operative Coal Co., has sunk a new shaft one and a half miles west of Fairbury, Livingston county, on the Toledo, Peoria & Western Railroad.

Mounts Bros. have sunk a new shaft one and a half miles south of Streator, in Livingston county.

Massey Bros. have sunk a new shaft two miles south of Streator, in Livingston county.

Taylor & Cavanaugh, Carbon Hill, Grundy county, have sunk a new air shaft at the face of the southeast workings of their No. 5 mine. This has greatly improved the ventilation in that section of the mine.

The superintendent of the Big Four Wilmington Coal Co., William Harkis, has kindly furnished the following description of the No. 6 mine of that company, located at Eileen, a new mining town in Grundy county:

"This shaft is sunk on the southwest quarter of section 26."

#### HOISTING SHAFT.

The hoisting shaft sunk is in circular form and finished 13 feet in diameter on the clear, and is lined from the sand rock to the surface landing with a belt of concrete 14 inches in thickness. The depth of the shaft from the landing to the cage seats is 102 feet; this includes eight feet of surface filling, the entire surface plant being raised eight feet above the prairie level; the shaft is equipped with wire rope guides, four to each cage; the signal plan is Overhart's pneumatic system.

#### AIR SHAFT.

This shaft is likewise sunk circular and is nine feet in diameter, it is also lined with concrete 12 inches thick, from sand rock to the eight foot arbitrary level above the prairie. The fan house is built of concrete, and brick, the ceiling of the engine room is of steel, no wood being used except for the short rafters of the roof, there being less than 500 feet of lumber in the whole building, and this is protected by gravel roofing. The fan is 16 feet in diameter; Brazil type, coupled direct to a 9x14 Atlas horizontal engine; the engine and fan, also the walls, are all built on solid concrete, insuring that the alignment will not change; an extra heavy fan-shaft is used, requiring only two shaft bearings.

A reducing valve governor is fitted to the steam pipe, which keeps the steam at exactly 100 for the fan engine and pumps below, and also prevents any variation of boiler pressure reaching either pumps or engine.

#### BOILER ROOM.

This room is built of brick with heavy pilasters on concrete foundation eight feet high; the joists of the room are lathed on the inside with expanded steel lathing, on which is plastered an inch thick of a fire-proof cement coating; the roof sheeting is treated with a fire resisting composition; the boilers are two 150 horse-power, each internally fired and of the Scotch marine type; the shells are eight feet in diameter with a 50-inch Morrison corrugated furnace, built for a working pressure of 200 pounds. The steam is drawn from boilers; the various points are all independent pipes and each can be used as a unit.

## HOISTING ENGINE ROOM.

This room is also built of brick, on concrete foundation, eight feet high, with steel ceiling and fire resisting roof; the hoisting engines are first motion 14x18 with a 36-inch drum; the drum is grooved cast iron, each rope feeding behind each other, to reduce the lead. A high speed Kimball engine is also installed with a 60-light dynamo and a switchboard.

## TOWER.

The tower is built of wood, the loaded cars being weighed on top, on rails, no flat sheets being used; the cars are then dumped on a side dumping tippie, the empty car passing on to a switch back, where it engages an automatic chain, which places the car at the back of the cage. The tower is also equipped with a large double balance shaker screen, driven by a 6x9 Duplex engine; the tower and tippie house are the only parts of this plant on which insurance is carried. Two large pair of scales are placed, one at each end of the switches, the east pair weighing all empty cars passing to the mines, the west pair weighing all loads passing from the tippie. All railroad cars empty and loaded are so graded that the cars run by gravitation and are controlled by brakes.

## SLOPE.

A slope traveling way for men and animals is driven from the surface and connects with the main bottom, seven feet high, timbered and planked throughout at a 33 per cent pitch, and is also provided with a hand rail. This slope is used as an escapement and is lighted by electricity during working hours.

## MULE BARN.

A single story barn for the mules is located 300 feet from the slope mouth and will accommodate 50 mules; the stable is also equipped with a watering tank and mule washing arrangements and shoeing shop, the building being located inside of a 25-acre pasture, into which the mules are turned during idle time.

## UNDERGROUND.

The main shaft bottom is driven northwest and southeast with main headings turned off at 90 degrees at each end of the shaft bottom; in front of the shaft are two small diameter turn-tables to turn the car 90 degrees into line with the cage; the empty car, leaving the cage, passes down a grade to a switch back and engages one of two chains northwest or southeast; immediately in front of the chain the cars are automatically oiled, the chain delivering the car at the top of each slope; enough gravitation is then secured to place the car at the extreme end of the shaft bottom, without any labor other than one cager.

The blacksmith shop is installed under an over cast, the fumes from which pass direct to the upcast; at the bottom of the upcast shaft is a large sump with a capacity of 10,000 gallons, built in four tight compartments, which enables cleaning out to be done without stopping. The pump room is made in the solid pillar and is ventilated by a narrow cut to the fresh air course, which keeps the pump room cool and clean.

## METHOD OF WORKING.

The method of working is upon face long-wall, all roads being turned 90 degrees; a car with a frame over the wheels on a 24-inch gauge is used, carrying a load of 3,000 pounds, the weight of the car being 800 pounds; the car is fitted with solid ends with a chain hitching fixed to the car.

## VENTILATION.

mine is designed for four main splits with three overcasts, all returns takes will be on the main roads.

## ABANDONED MINES.

Gardner-Wilmington Coal Company's mine at Clark City has been closed. I inspected this mine February 19, 1904, and found it in an unimproved condition, owing to a dangerous accumulation of black damp, also of gas in different parts of the upper seam, which had been abandoned for some time. There is only a thin strata of shale and coal between the upper and lower seams at this place. Many breaks and cavings have occurred at different times and black damp has escaped through these breaks in large quantities, endangering the lives of the men working in the lower seam. Since making this inspection, the mine had been idle for over two years and all the mules had been taken out, owing to a fire at the bottom escape shaft. I immediately notified the superintendent of the dangerous condition of the mine, also that it must be closed down at once. He ordered the men to take out their tools and the mine was abandoned. The Pontiac Coal company, Pontiac, Livingston county, has abandoned its

Brothers have abandoned their mine south of Streator, in Livingston

Taylor has abandoned his mine south of Ottawa, LaSalle county. Taylor & Stevie of Streator, LaSalle county, have abandoned their mine.

## IMPROVEMENTS.

Oglesby Coal company, Oglesby, LaSalle county, has completed the escape shaft to the middle of its mine; a traveling way has been partitioned off from the air chamber and a good and substantial stairway has been put in. A new stairway in the slope has been completed from the middle to the bottom of the seam, and a new passageway made from the bottom of the slope to the haulage road; the air course has been cleaned out, which has greatly improved the ventilation of the mine.

Matthiessen & Hegeler Zinc company, LaSalle has retimbered the bottom of the escape shaft and put in stairways in its mine.

## PROSPECTIVE MINES.

Kangley Coal company, Kangley, LaSalle county, is sinking a new hoist shaft at the face of the workings two miles south-west of its No. 2 mine. It will do away with the long rope haulage. A switch has been built to connect from the Chicago, Burlington & Quincy railway. The company is sinking a new shaft to No. 2 seam, near its No. 2 mine at Kangley; this shaft will be opened on the long-wall system.

Streator Coal company, Streator, LaSalle county, is sinking a new shaft at the face of the workings as an escapement and air shaft.

McMillin is sinking a new shaft near Streator, LaSalle county, to develop local trade.

## FATAL ACCIDENTS.

3, 1903, Dominic Bertigall, miner, aged 30 years, married, was killed at the face of his working place, by a fall of rock in the Gardner-Wilmington Coal company's mine, located at Clark City, Kankakee county. He leaves a widow.

12, 1903, Victor Ferrara, miner, aged 40 years, married, was killed at the face of his working place, by a fall of rock, in Taylor & Stevie's No. 4 mine, located at Carbon Hill, Grundy county. He leaves a wife and one child.

Sept. 16, 1903, Seb. Romagnolis, miner, aged 19 years, single, was killed instantly by falling down the shaft of the Chicago, Wilmington & Vermillion Coal company No. 1 mine, South Wilmington, Grundy county. Deceased with three other men were on the cage coming out of the shaft; when about 30 feet from the lower landing, deceased let loose of the handle bar, turning round, presumably to get off at the lower landing, when he fell to one side of the shaft, the cage passing him, he fell to the bottom, a distance of 165 feet.

Oct. 8, 1903, Paul Segia, miner, aged 28 years, single, was injured by a fall of rock, in his roadhead; he died Feb. 24, 1904, four and one half months after receiving the injuries.

Oct. 17, 1903, Tony Claretz, driver, aged 35 years, married, was fatally injured in Mrs. E. Hakes mine, Rutland, LaSalle county. Deceased was coming down grade with a loaded trip and was sitting on the front end of the car, when his head struck against the roof breaking his neck; he died the following day. He leaves a widow and two children in Italy.

Jan. 4, 1904, Mateo Treaso, miner, aged 42 years, married, was fatally injured at the face of his working place by a fall of rock, in Taylor & Cavanaugh's No. 5 mine, Carbon Hill, Grundy county. Deceased was brushing the roadhead when a large rock fell on him causing injuries from which he died the following day. He leaves a widow and one child.

Jan. 26, 1904, Florent Mayhein, miner, aged 44 years, married, was killed instantly by a fall of rock in his roadhead in the No. 6 mine of the Wilmington Star Mining Co., Coal City, Grundy county. He leaves a widow and three children.

March 10, 1904, Frank Novac, miner, aged 46 years, married, was killed instantly by a fall of rock, at the face of his working place in Taylor & Cavanaugh's No. 5 mine, Carbon Hill, Grundy county. Deceased after firing shot immediately returned to observe the effects when a large rock fell on him with the result as stated. He leaves a widow and six children.

March 18, 1904, William Smith, miner, aged 24 years, single, was killed instantly by a fall of rock, at the face of his working place in the No. 1 mine of the Chicago, Wilmington & Vermillion Coal Co., Heenanville, LaSalle county.

April 9, 1904, Peter Doreen, miner, aged 45 years, married, was killed instantly by a fall of rock at the face of his working place in No. 5 mine, Taylor & Cavanaugh, Carbon Hill, Grundy county. He leaves a widow and one child.

May 10, 1904, Fred Cossatto, miner, aged 27 years, married, was killed instantly by a fall of rock at the face of his working place, in the No. 4 mine of the Wilmington Coal Mining & Mfg. Co., Grundy county. He leaves a widow and one child.

June 19, 1904, James Minyetta, miner, aged 30 years, single, was fatally injured by a fall of rock in No. 6 mine of the Big Four Coal Co., Ellettsville, Grundy county. Deceased fired a shot in the right hand side of his place which loosened a rock. He neglected to secure it with a prop when it fell on him inflicting injuries from which he died the following day.

June 25, 1904, John Roebuck, miner, aged 41 years, married, was severely burned by an explosion of powder in the Star Coal Co.'s No. 2 mine, Kangas, LaSalle county. Deceased was filling a cartridge, in raising up, he struck his head against the roof, knocking the lamp from his head, it fell in the keg of powder, causing the explosion; he was removed to the hospital at Streator, where he died of his injuries June 30. He leaves a widow and four children.

The tables of fatal and non-fatal accidents follow, also the county tables of the mines in the district.

Respectfully submitted,

HECTOR McALLISTER,  
State Inspector of Mines, First District, Streator, Ill.

*Fatal Casualties—First District—July 1, 1904.*

Age.	NAME.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Dependent.	Cause of accident.
03.	3 Dominic Bertigall....	30 Miner.....	Clay City....	1	1			1	Falling rock.....
12	12 Victor Ferrara.....	40 Miner.....	Carbon Hill	1	1	1		1	Falling rock.....
16	16 Seb. Romagnolis.....	19 Miner.....	S. Wilm'gtn			1		1	Falling down shaft..
8	8 Paul Segia.....	28 Miner.....	Coal City....				1		Falling rock.....
17	17 Toney Claretz.....	35 Driver.....	Rutland....	1	1	2		3	Head striking roof..
04.	4 Mateo Treaso.....	42 Miner.....	Carbon Hill	1	1	3		1	Falling rock.....
26	26 Florent Mayhein.....	44 Miner.....	Coal City....	1	1	3		3	Falling rock.....
10	10 Frank Novac.....	46 Miner.....	Carbon Hill	1	1	6		2	Falling rock.....
18	18 William Smith.....	24 Miner.....	Streator....				1		Falling rock.....
9	9 Peter Doreen.....	45 Miner.....	Carbon Hill	1	1	1		1	Falling rock.....
10	10 Fred Cassatto.....	27 Miner.....	Diamond....	1	1	2		2	Falling rock.....
19	19 James Minyetta.....	30 Miner.....	Eileen.....				1		Falling rock.....
25	25 John Roebock.....	41 Miner.....	Kangley....	1	1	4		4	Gas explosion.....
	Total.....	13		9	9	22	4	18	

*Recapitulation of Fatal Casualties—First District—July 1, 1904.*

Residence.	No	Occupation.	No	Nature of Casualty.	No	Colliery.	No
Coal City....	1	Driver.....	1	Explosion of powder	1	Big 4 Coal Co.....	1
Coal City....	2	Miners.....	12	Falling rock.....	10	C. W. & V. Coal Co.....	2
Carbon Hill....	4			Pit car and roof.....	1	Gardner-Wilm Coal Co.	1
Diamond....	1			Falling down shaft...	1	Mrs. E. Hakes.....	1
Streator.....	1					Star Coal Co.....	1
Kangley.....	1					Taylor & Cavanaugh....	4
Rutland.....	1					Wilm Coal M. & Mfg. Co	1
Streator.....	1					Wilm Star M. Co.....	2
Wilmington	1						
Total.....	13		13		13		13



## Non-Fatal Casualties—First District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903											
July	8 A. Miller	37	Miner	So. Wilmington	No. 1	1	1		3	4 Collar bone broken; falling coal.	49
	20 Geo. Plasko	37	Miner	Streator	Arme	1	1		1	1 Face and hand burned; expl'n of gas.	65
	20 Geo. Lisko	45	Miner	Streator	Arme	1	1		1	2 Face and hand burned; expl'n of gas.	65
	22 Florence Corcini	26	Miner	Clark City	Clark City	1	1		1	2 Leg broken; by pit car	100
	23 Brages Secelain	21	Miner	So. Wilmington	No. 1	1	1		1	2 Shoulder bruised; falling rock	91
	24 Alfred Delbar	28	Driver	LaSalle	Rockwell	1	1		1	1 Ankle broken; pit car	36
Aug.	30 Dugal Olivetti	35	Miner	So. Wilmington	No. 2					1 Back injured; lifting pit car	47
	5 Mike Olivetti	35	Miner	So. Wilmington	No. 1					1 Hand mashed; falling rock	77
	5 Frank Kratfel	18	Miner	Braidwood	No. 4					1 Finger mashed; falling coal	35
	10 James Kinniski	62	Miner	LaSalle	Cahill	1	1		1	1 Foot mashed; falling coal	50
Sept.	7 Alfred Mentine	30	Miner	So. Wilmington	No. 1	1	1		1	3 Back injured; falling rock	49
	15 John Bedner	56	Miner	Kangley	No. 2	1	1		3	6 Leg injured; falling rock	30
	24 Aaron Ferretti	52	Miner	Clark City	Clark City	1	1		6	4 Eye injured; steel from wedge	30
	25 Anton Robeck	52	Miner	Braidwood	No. 5	1	1		1	1 Leg injured; falling coal	98
	25 James A. Ambrosia	45	Miner	So. Wilmington	No. 1	1	1		1	3 Body injured; falling rock	77
	29 Anton Laft	45	Miner	Clark City	Rockwell	1	1		3	1 Leg broken; falling rock	60
Oct.	17 Wm. Williams	33	Miner	So. Wilmington	No. 1	1	1		6	8 Back and leg injured; falling rock	63
	36 Cuslan Fassett	43	Miner	Peru	No. 2	1	1		1	2 Body injured; falling rock	56
	36 Anton Mensch	43	Roadman	Kangley	Union	1	1		1	1 Rib broken; pit car	84
Nov.	16 John Rouch	52	Driver	So. Wilmington	No. 1	1	1		1	1 Toe cut off; by mule	84
	17 C. Shannan	22	Driver	Kangley	No. 2	1	1		1	1 Leg broken; pit car	90
	29 James Arthur	22	Miner	So. Wilmington	No. 1	1	1		1	1 Leg injured; pit car	47
Dec.	1 Louis Aoutori	29	Miner	Coal City	No. 2	1	1		1	1 Ankle injured; falling rock	63
	5 John Cooper	39	Miner	Braidwood	No. 4	1	1		1	6 Back and foot injured; falling rock	63
	8 John Mulligan	38	Miner	Cardiff	No. 3	1	1		1	4 Knee dislocated; falling rock	60
	8 Andrew Galliger	45	Miner	Clark City	No. 2	1	1		1	1 Body bruised; top of pit car	50
	8 D. Bonocossi	26	Miner	Oglesby	No. 1	1	1		1	1 Leg broken; falling coal	65
	9 August Miller	56	Miner	Streator	Clark City	1	1		1	1 Finger mashed; pit car	31
	11 James Ferguson	24	Driver	Kangley	No. 6	1	1		1	1 Leg broken; pit car	56
	16 Dons McCormick	32	Driver	Braidwood	No. 2	1	1		3	3 Knee injured; falling rock	35
	29 Nick Macalouse	50	Miner	Diamond	No. 5	1	1		1	3 Back bruised; falling coal	37
1904	30 Chris Karlowski	41	Miner	LaSalle	Rockwell	1	1		1	1 Foot broken; falling coal	42
Jan.	4 August Mincut	34	Miner	LaSalle	No. 1	1	1		1	1 Hand injured; falling coal	42
	9 Joe Rolando	49	Miner	Diamond	No. 4	1	1		3	1	

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2	John Cook	55	Miner	Streator	Acme	1	1	4	5	90
5	John Brucki	20	Miner	LaSalle	Rockwell	1	1	1	Face cut, leg injured; falling rock.	
8	William Jones	17	Driver	Clark City	Clark City	1	1	1	Foot injured; pit car	
11	William Cadman	27	Miner	Streator	No. 1	1	1	1	Toe mashed; falling rock	
14	Martha Barker	40	Driver	Oglesby	Oglesby	1	1	3	Hand mashed; pit car	
20	John Fink	55	Miner	Streator	No. 1	1	1	3	Ribs broken; falling rock	
23	Bar Columbus	50	Miner	Braidwood	No. 3	1	1	7	Back bruised; falling rock	
24	James Marsaglia	30	Miner	Coal City	No. 3	1	1	6	Leg broken; falling rock	
25	D. Beala	41	Miner	Kangley	No. 2	1	1	6	Leg injured; falling rock	
28	Lewis Morrow	23	Miner	Coal City	No. 6	1	1	1	Leg broken; falling rock	
29	Joe Ferraro	23	Miner	Streator	No. 2	1	1	1	Shoulder bruised; falling coal	
6	J. N. Wilkinson	30	Miner	Streator	Acme	1	1	1	Leg broken; falling rock	
11	Legnatz Kaydom	21	Miner	LaSalle	Rockwell	1	1	1	Leg broken; falling rock	
16	John Godza	40	Miner	LaSalle	Deer Park	1	1	1	Back bruised; falling rock	
22	Edward Allen	37	Miner	So. Wilmington	No. 1	1	1	1	Leg injured by crowbar	
23	J. M. Winseth	23	Driver	So. Wilmington	No. 1	1	1	1	Leg injured by pit car	
23	James Wilson	23	Miner	Peru	Union	1	1	1	Finger cut off; falling rock	
2	Jas. Stumatt, Jr.	26	Miner	Diamond	No. 4	1	1	1	Hand mashed; falling coal	
5	Fred Lille	17	Miner	So. Wilmington	No. 2	1	1	1	Leg injured by pit car	
13	Rick Albam	37	Miner	LaSalle	Union	1	1	4	Head cut; falling rock	
13	Joe Muzrelli	49	Miner	So. Wilmington	No. 2	1	1	4	Hand mashed; falling coal	
14	John Bramie	48	Miner	So. Wilmington	No. 1	1	1	3	Back bruised; falling coal	
27	Anton Trumpalla	52	Miner	So. Wilmington	Rockwell	1	1	3	Leg injured by pit car	
29	William Purchase	55	Miner	LaSalle	No. 1	1	1	3	Leg broken; falling coal	
11	Peter Veard	50	Roadman	Streator	No. 2	1	1	1	Foot injured; falling rock	
12	Bat Albucco	25	Miner	Streator	No. 1	1	1	1	Foot injured; falling rock	
9	Edward Timm	48	Miner	So. Wilmington	No. 1	1	1	3	Leg injured; falling rock	
11	Joe Martin	20	Miner	LaSalle	Rockwell	1	1	1	Foot injured; falling rock	
25	John Marydue	45	Miner	LaSalle	No. 1	1	1	5	Back injured; falling rock	
27	Chas. Kastenlin	56	Miner	LaSalle	Rockwell	1	1	1	Face cut; falling rock	
						38	32	110		3,132

\* Not recovered July 1, 1904.

Total number of men injured	70	Time lost by men recovered	3,132 days
Not recovered July 1, 1904	12	Average days lost by men recovered	54
Number recovered July 1, 1904	58		

*Recapitulation of Non-Fatal Casualties—First District—July 1, 1904.*

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville.....	2	Cager.....	1	Crowbar.....	1	Acme.....	4
Braidwood.....	4	Drivers.....	9	Explosion gas.....	2	Braceville.....	2
Cardiff.....	1	Miners.....	57	Falling coal.....	16	Cardiff.....	1
Carbon Hill.....	1	Roadmen.....	3	Falling rock.....	35	Cahill, James.....	1
Coal City.....	4			Flying steel.....	1	C. W. & V. Coal Co.....	24
Clark City.....	4			Mule.....	1	Gar. Wilm. Coal Co.....	4
Diamond.....	3			Pit cars.....	14	Illinois Zinc Co.....	2
Kangley.....	4					LaSalle C. C. Co.....	12
LaSalle.....	15					M. & H. Zinc Co.....	1
Oglesby.....	2					Oglesby Coal Co.....	2
Peru.....	2					Star.....	4
Streator.....	10					Taylor & Cavanaugh.....	2
S. Wilmington.....	18					Wilm. C. M. & Mfg. Co.....	7
						Wilm. Star M. Co.....	4
Total.....	70		70		70		70

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-  
jugal Relations and Time Lost—First District—July 1, 1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankle broken.....	1	1	.....	1	36	36	1.43
Ankle injured.....	1	1	.....	5	63	63	1.43
Ankle dislocated.....	1	.....	1	.....	*	.....	1.43
Bodies injured.....	3	3	.....	12	110	36.6	4.28
Back injured.....	7	5	2	25	254	36.3	10.00
Back and leg injured.....	1	.....	1	.....	63	63	1.43
Back and foot injured.....	1	1	.....	6	63	63	1.43
Collar bone broken.....	1	1	.....	4	49	49	1.43
Eye injured.....	1	1	.....	6	98	98	1.43
Face and hands burned.....	2	1	1	3	130	65	2.86
Face cut.....	2	1	1	2	*	.....	2.86
Fingers mashed.....	3	.....	3	.....	136	4.53	4.28
Finger cut off.....	1	.....	1	.....	58	58	1.43
Feet injured.....	7	4	3	3	204	41	10.00
Hand injured.....	6	3	3	10	295	49	8.56
Head cut.....	1	.....	1	.....	45	45	1.43
Knee injured.....	1	1	.....	3	35	35	1.43
Knee dislocated.....	1	1	.....	4	60	60	1.43
Legs broken.....	13	7	6	21	758	58.3	18.56
Legs injured.....	9	3	6	18	373	41.4	12.86
Ribs broken.....	2	2	.....	6	174	87	2.86
Shoulder injured.....	2	.....	2	.....	133	66.5	2.86
Side injured.....	1	1	.....	2	35	35	1.43
Toe cut off.....	1	1	.....	1	*	.....	1.43
Toe injured.....	1	.....	1	.....	60	60	1.43
Totals, average and percentage.....	70	38	32	132	3,132	54.2	100.00

\*Still idle.

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*Grundy County—First District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Chicago, Wil. & Ver. C. Co., No. 1	S. Wilmington	283,325		165,406	61,232	
2	Chicago, Wil. & Ver. C. Co., No. 2	S. Wilmington	185,245		98,095	51,115	
3	Braceville Coal Co., No. 5	Braceville	156,799		122,004		
4	Taylor & Cavanaugh, No. 5	Carbon Hill	136,166	181	101,348		
5	Big Four Wilm. Coal Co., No. 3	Coal City	128,268	494	77,042		17,724
6	Wilmington Star Min. Co., No. 6	Coal City	103,812	80	52,603	1,300	18,406
7	Wil. Coal Min. & Mfg. Co., No. 4	Diamond	95,874		74,197		
8	Wil. Coal Min. & Mfg. Co., No. 5	Diamond	91,781		71,350		
9	Wilmington Star Min. Co., No. 5	Coal City	73,715	25	54,284		2,702
10	Big Four Wilm. Coal Co., No. 2	Coal City	64,750		32,131		13,518
11	Braceville Coal Co., No. 6	Braceville	30,179	2,581	19,481		
12	Taylor & Cavanaugh, No. 4	Carbon Hill	19,545	133	14,172		
13	Big Four Wilm. Coal Co., No. 6	Eileen	5,883		1,956		2,645
14	Wilmington Star Min. Co., No. 7	Coal City	1,510	285			
Totals			1,376,852	3,779	884,069	113,647	55,065
LOCAL MINES.							
1	Espley & Handwerk, No. 1	Morris	5,500		4,400		
2	J. K. Telfer, Telfer	Morris	3,595		3,000		
3	William Wood, Wood, No. 5	Morris	3,300		2,800		
4	Frank Gilbride, Gilbride	Morris	2,840		2,620		
5	Mitchel Bros.	Morris	2,750		2,350		
6	James Heather	Morris	2,523		2,300		
7	Byrens & Fleming, Bluff Mine	Morris	2,500		2,300		
8	James Bell	Morris	2,176		1,751		
9	John Cryer	Morris	2,025		1,900		
10	Henry Tesdall	Morris	897		876		
11	R. Blair	Morris	200		200		
Totals			28,306		24,497		
Totals—25 mines			1,405,158	3,779	908,566	113,647	55,065

Mines in 1903, 22.

New mines, 3.

Mines in 1904, 25.

*Grundy County—First District—Concluded.*

TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
56,687		\$414,348	477	108	585	274,665		1,911	6,749	236	283,325	1
36,035		271,241	300	76	376	171,116		7,380	6,749	232	185,245	2
34,795		218,715	230	74	304	147,319		5,000	6,480	280	156,799	3
25,512	9,125	155,393	229	56	285	123,507		3,534	9,125	230	136,166	4
27,538	5,470	146,091	242	56	298	122,798			5,470	191	128,268	5
28,784	2,639	109,259	150	70	220	101,173			2,639	248	108,812	6
19,677	2,000	115,131	240	73	313	90,682		3,192	2,000	206	95,874	7
17,431	3,000	109,485	210	58	268	88,781			3,000	240	91,781	8
13,149	3,465	85,747	115	80	195	65,619		4,631	3,465	247	73,715	9
16,151	2,950	70,819	138	53	191	59,700		2,100	2,950	174	64,750	10
8,117		52,663	82	40	122	28,124			2,055	138	30,179	11
4,040	1,200	21,972	97	49	146	18,345			1,200	70	19,545	12
1,192	90	6,988	84	38	122	5,793			90	21	5,883	13
	1,225	707	24	12	36	285			1,225	60	1,510	14
289,108	31,164	\$1,778,499	2,618	843	3,461	1,297,907		25,748	53,197	220	1,376,852	
1,100		\$11,220	10	2	12			5,300	200	275	5,500	1
595		7,674	10	2	12			3,295	300	270	3,595	2
500		8,200	8	1	9			3,300		250	3,300	3
220		7,425	6	1	7			2,840		210	2,840	4
400		6,862	6	1	7			2,750		225	2,750	5
223		6,548	5	1	6			2,523		215	2,523	6
200		6,525	5	1	6			2,500		208	2,500	7
425		5,240	5	1	6			2,176		200	2,176	8
125		5,350	4	1	5			2,025		210	2,025	9
21		2,649	4	1	5			866	31	166	897	10
		600	2		2			200		100	200	11
3,809		\$68,293	65	12	77			27,775	531	212	28,306	
292,917	31,164	\$1,846,792	2,683	855	3,538	1,297,907		53,523	53,728		1,405,158	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$.87; from April 1, 1904, to July 1, 1904, \$.84; average price for the year, \$.8624 per ton.

NOTE.—Average price paid for hand mining, local mines, for the year, \$1.416 per ton.

*Kankakee County—First District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Gardner-Wilmington Coal Co., B	Clark City ....	53,405	2,353	35,687	.....	3,82

Mines in 1903, 1.  
Mines in 1904, 1.

*Kankakee County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
10,203	1,270	\$82,964	112	82	194	15,068	31,659	1,825	4,853	174	53,405	1

NOTE.—Price paid for hand mining, shipping mines, \$0.87 per ton.



*LaSalle County—First District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	LaSalle Co. Carbon Coal Co., No. 1	LaSalle .....	189,789	7,389	137,340	15,204	196
2	Acme Coal Co., Acme .....	Streator .....	166,260		86,744		13,088
3	LaSalle County Carbon Coal Co., Union .....	LaSalle .....	166,085	417	89,720	42,867	
4	LaSalle County Carbon Coal Co., LaSalle .....	LaSalle .....	163,078	41,655	85,067	4,324	8,907
5	Chi., Wilm. & Ver. Coal Co., No. 2	Streator .....	159,562	1,213	96,370		
6	LaSalle County Carbon Coal Co., Rockwell .....	LaSalle .....	153,456	9,259	85,783	33,176	
7	Star Coal Co., 2 .....	Kangley .....	122,189	4,726	85,855		6,327
8	Oglesby Coal Co., Oglesby .....	Oglesby .....	113,016	19,243	70,945	523	2,367
9	Matthiesson & Hegeler Zinc Co., M. & H. Zinc Co. ....	LaSalle .....	103,557	105,557			
10	Mrs. Emerson Hakes, No. 2 .....	Rutland, .....	104,814	26,863	63,012		
11	Chi., Wilm. & Ver. Coal Co., No. 1	Streator .....	97,975		33,398	30,306	
12	Estate James Cahill, Cahill mine	Peru .....	72,000		61,000		
13	Illinois Zinc Co., Deer Park .....	Peru .....	68,652	68,652			
14	William Francis, No. 2 .....	Streator .....	11,000		7,500		
15	North Wilmington Coal Co., No. 1	Seneca .....	8,190	8,190			
16	Howe Coal Co., No. 1 .....	Streator .....	7,952	1,310	4,954		
17	Star Coal Co., No. 4 .....	Kangley .....	5,147		3,906		
Totals .....			1,714,722	294,474	911,594	126,400	30,965
LOCAL MINES.							
1	Marseilles Coal Mining Co., No. 1	Marseilles .....	25,836	24,857			
2	Mounts Bros., No. 1 .....	Streator .....	10,666		6,674		
3	Jos. Sowerby & Co., No. 1 .....	Streator .....	5,816	5,400	216		
4	Haar Bros., Haar Bros. ....	Streator .....	2,600		1,900		
5	Oscar Kimes, Kimes mine .....	Streator .....	2,300	2,300			
6	Lewis Evans, Evans mine .....	Kangley .....	1,646	1,646			
7	Evans Bros., No. 2 .....	Streator .....	1,600		1,100		
8	Thos. Smith & Sons, No. 1 .....	Streator .....	1,600		1,100		
9	Nelson & Stokes, 1 .....	Streator .....	906		680		
10	John McNeil, McNeil .....	Kangley .....	906		700		
11	W. Thomas & Co .....	Streator .....	822		556		
12	Bargreen Bros .....	Streator .....	522		482		
13	Felton & Voight .....	Streator .....	520		400		
14	Mat White, No. 1 .....	Ottawa .....	350		200		
15	Brookers Bros .....	Lowell .....	340		275		
16	Daniel Vazaine .....	Ottawa .....	250		200		
17	Jos. W. McCullough .....	Ottawa .....	250		210		
18	T. B. Farrell .....	Ottawa .....	240		200		
19	Ringer & Hochstetter .....	Ottawa .....	240		210		
20	Myer & Hendee .....	Ottawa .....	230		200		
21	William Mertz .....	Ottawa .....	220		190		
22	James Edson .....	Ottawa .....	213		180		
23	L. W. Brewer .....	Ottawa .....	200		175		
24	William Saxby .....	Ottawa .....	200		165		
Totals .....			58,467	34,203	16,013		
Totals—41 mines .....			1,773,189	328,677	927,607	126,400	30,965

Mines in 1903, 35.  
 New mines, 9.  
 Abandoned mines, 3.  
 Mines in 1904, 41.

*LaSalle County—First District—Concluded.*

TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1,660		\$334,247	260	121	381	182,847		1,599	5,343	242	189,789	1
1,508		192,466	215	71	286	125,568		10,789	29,903	281	166,260	2
1,081		286,724	266	120	386	92,952	30,901	36,599	5,633	250	166,085	3
1,125		279,984	218	97	315	83,904	48,875	21,525	8,774	255	163,078	4
1,979		200,553	231	100	331	149,530		505	9,527	213	159,562	5
5,238		268,581	238	76	314	153,456				240	153,456	6
2,156	2,925	157,964	171	69	240	117,393		1,871	2,925	234	122,189	7
3,904	6,044	194,341	190	97	287	102,631		4,341	6,044	221	113,016	8
		184,725	57	36	93		958	5,252	99,347	288	105,537	9
1,289	3,650	148,369	180	45	225	69,329	29,863	4,972	3,650	262	104,814	10
4,271		123,583	183	71	254	90,378		5,689	1,908	289	97,975	11
8,500	2,500	126,750	130	46	176	30,000	22,000	18,000	2,000	267	72,000	12
		127,006	85	53	140	67,620		288	744	303	68,652	13
3,500		18,200	10	5	15	160		10,840		240	11,000	14
		19,410	22	10	32	5,345		2,164	681	283	8,190	15
1,688		13,485	18	9	27	1,885		5,867	200	90	7,950	16
1,241		6,441	10	2	12	4,213		934		181	5,147	17
6,140	15,119	\$2,682,829	2,484	1,080	3,514	1,277,211	129,597	131,235	176,679	253	1,714,722	
	979	\$50,204	60	13	73				25,836	260	25,836	1
3,942	50	19,009	14	4	18			10,666		300	10,666	2
200		8,392	10	1	11			5,756	60	216	5,816	3
	700	4,435	4	1	5			2,500	100	300	2,600	4
		3,450	4		4			2,300		240	2,300	5
		3,292	4	1	5			1,646		200	1,646	6
500		2,855	6	1	7			1,600		230	1,600	7
500		2,775	4	1	5			1,600		200	1,600	8
226		1,711	3		3			906		220	906	9
200		1,520	3		3			900		221	900	10
266		1,353	4	1	5			822		190	822	11
40		1,235	3	1	4			522		180	522	12
120		872	3	1	4			520		160	520	13
150		600	2	1	3			350		150	350	14
65		752	2		2			340		160	340	15
50		550	2		2			250		130	250	16
40		565	2		2			250		250	250	17
40		540	2		2			240		185	240	18
30		553	2		2			240		160	240	19
30		530	2		2			230		173	230	20
30		505	2		2			220		194	220	21
33		483	2		2			213		182	213	22
25		462	2		2			200		150	200	23
35		447	2		2			200		155	200	24
6,522	1,729	\$107,092	144	26	170			32,471	25,966	200	58,467	
2,662	16,848	\$2,789,921	2,628	1,056	3,684	1,277,211	129,597	163,706	202,675		1,773,189	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$2; from April 1, 1904, to July 1, 1904, \$0.79.

From July 1, 1903, to April 1, 1904, \$0.64; from April 1, 1904, to July 1, 1904, \$0.51.

Average price paid for the year, \$0.7155 per ton.

Average price paid for hand mining, local mines, for the year, \$0.8893 per ton.

## Livingston County—First District—1904

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Cardiff Coal Co. No. 2.....	Cardiff.....	79,174	42,899	18,777	677	285
2	Beggs-Davis & Co., Walton mine	Fairbury.....	24,200	1,500	16,300		2,800
3	Manhattan Coal Co., No. 2.....	Cornell.....	3,282	250	1,882		325
4	Benjamin Davis, No. 2.....	Streator.....	3,195		2,130		
5	Brady Coal Co. No. 1.....	Pontiac.....	2,919	2,919			
6	A. Anderson & Sons, No. 1.....	Streator.....	1,423		1,066		
Totals.....			114,193	47,568	40,155	677	3,095
LOCAL MINES.							
1	Coöperative Coal Co., No. 1.....	Fairbury.....	15,677		7,080	2,527	1,985
2	Streator Clay Mfg. Co. Clay works	Streator.....	10,800	10,800			
3	Ed. E. Evans, Evans.....	Streator.....	2,200		1,650		
4	Streator Aqueduct Co., No. 1.....	Streator.....	1,825				
5	Munts Bros., No. 2.....	Streator.....	1,575		1,044		
6	William McMillin, No. 1.....	Streator.....	1,192		880		
7	Alex Steel & Co.....	Streator.....	882	114	529		
8	John Westerlund.....	Streator.....	768	311	382		
9	Massey Bros.....	Streator.....	627		522		
10	Harry Wonders.....	Streator.....	450		300		
11	Johnson Coöperative Coal Co. No. 1	Fairbury.....	278	278			
Totals.....			36,274	13,328	12,387	2,527	1,985
Totals—17 mines.....			150,467	60,896	52,542	3,204	5,080

Mines in 1903—14.

New Mines—6.

Abandoned Mines—3.

Mines in 1904—17.

*Livingston County—First District—Concluded.*

TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Area or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
526		\$115,574	96	67	163	71,543		4,283	3,348	284	79,174	1
800		36,170	27	10	37	11,570	9,490	1,680	1,460	220	24,200	2
625		7,611	10	8	18	2,782		400	100	100	3,282	3
065		4,899	6	4	10	1,250		1,945		204	3,195	4
		5,838	18	5	23	799		2,000	120	150	2,919	5
357		2,591	4	2	6	393		1,030		160	1,423	6
173		\$172,683	161	96	257	88,337	9,490	11,338	5,028	186	114,193	
785	3,300	\$26,383	12	10	22			12,377	3,300	236	15,677	1
		16,200	13	5	18				10,800	296	10,800	2
550		4,043	5	2	7			2,200		225	2,200	3
		2,135	3	1	4				1,825	300	1,825	4
531		2,458	5	1	6			1,575		165	1,575	5
312		2,004	5	1	6			1,192		195	1,192	6
239		1,463	2	1	3			882		145	882	7
75		1,556	2	1	3			768		185	768	8
105		1,305	3	1	4			627		225	627	9
150		705	2	1	3			450		175	450	10
		556	6	2	8			278		50	278	11
1,747	3,300	\$58,608	58	26	84			20,349	15,925	215	36,274	
1,920	3,300	\$231,291	219	122	341	88,337	9,490	31,687	20,953		150,467	

NOTE—Average price paid for hand mining, shipping mines, for the year, \$0.807 per ton. At Streator Clay Mfg. Co.'s mine, miners paid by the day \$2.56 from July 1, 1903, to April 1, 1904; \$2.42 from April 1, 1904 to July 1, 1904.

Average price paid for hand mining, local mines, \$0.656 per ton.

*Will County—First District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Murphy, Keenman & Co., Murphy	Braidwood.....	30,282	131	19,453	.....	2,327
2	Joliet, Wilmg'n Coal Co. Reliance	Braidwood.....	25,000	3,500	3,500	.....	5,400
3	Rixson Coal Co., No. 1.....	Braidwood.....	7,834	1,597	2,446	2,279	.....
	Totals.....		63,096	5,228	30,498	2,279	8,177
LOCAL MINES.							
1	John O. Connor & Co. No. 2.....	Braidwood.....	5,000	.....	3,500	1,000	.....
	Totals.....		5,000	.....	3,500	1,000	.....
	Totals—4 mines.....		68,096	5,228	33,998	3,279	8,177

Mines in 1903—2.  
 New mines—2.  
 Mines in 1904—4.

*Will County—First District—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
857	1,095	\$41,033	60	24	84	23,688	.....	5,479	1,065	216	30,262	1
450	.....	40,203	80	23	103	21,800	.....	2,400	800	195	25,000	2
512	.....	13,762	50	35	85	7,834	.....	.....	.....	70	7,834	3
819	1,095	\$94,998	190	82	272	53,322	.....	7,879	1,895	306	63,096	
500	.....	\$11,375	8	1	9	.....	.....	5,000	.....	150	5,000	1
500	.....	\$11,375	8	1	9	.....	.....	5,000	.....	150	5,000	
319	1,095	\$106,373	198	83	281	53,322	.....	12,879	1,895	.....	68,096	

NOTE—Average price for hand mining, shipping mines, \$0.939 for the year.  
Price paid for hand mining, local mines, \$1.00 per ton.

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy .....	14	1,376,852	3,779	884,069	113,647	55,085	289,108	31,164	\$1,778,411
Kankakee .....	1	53,405	2,353	35,687	.....	3,832	10,263	1,270	82,961
LaSalle .....	17	1,714,722	294,474	911,594	126,400	30,995	336,140	15,119	2,682,822
Livingston .....	6	114,193	47,568	40,155	677	3,620	22,173	.....	172,638
Will .....	3	63,066	5,228	30,498	2,279	8,177	15,819	1,095	94,923
Totals and averages	41	3,322,268	353,402	1,902,003	243,003	101,709	673,505	48,648	\$4,811,923

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy .....	11	28,306	.....	25,497	.....	.....	3,809	.....	\$63,355
LaSalle .....	24	58,467	34,203	16,013	.....	.....	6,522	1,729	107,082
Livingston .....	11	36,274	13,328	12,387	2,527	1,985	2,747	3,900	58,608
Will .....	1	5,000	.....	3,500	1,000	.....	500	.....	11,373
Totals and averages	47	128,047	47,531	56,397	3,527	1,985	13,578	5,029	\$245,398
Totals, district—all mines .....	88	3,450,315	400,933	1,958,400	246,530	103,694	687,081	53,677	\$5,057,341

Whole number of mines reported in 1903, 74.  
 Number of new mines opened during the year, 20.  
 Number of mines abandoned during the year, 6.  
 Whole number of mines reported for 1904, 88.

*First District—1904—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
2,618	843	3,461	1,297,907	.....	25,748	53,197	220	1,376,852	.....	\$0.862	.....	47	13
112	82	194	15,068	31,659	1,825	4,853	174	53,405	.....	0.87	.....	3	1
2,484	1,032	3,514	1,277,211	129,597	131,235	176,679	253	1,714,722	.....	0.715	.....	51	15
161	96	257	88,337	9,490	11,338	5,028	187	114,193	.....	0.807	.....	11	3
190	82	272	53,322	.....	7,879	1,895	206	63,096	.....	0.939	.....	8	3
5,565	2,133	7,698	2,731,845	170,746	178,025	241,652	227	3,322,268	.....	\$0.786	.....	120	35

*First District—1904—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
65	12	77	.....	.....	27,775	531	303	28,306	.....	\$1.416	.....	6	2
144	26	170	.....	.....	32,471	25,996	200	58,467	.....	0.8892	.....	7	1
58	26	84	.....	.....	20,349	15,925	215	36,274	.....	0.6551*	.....	11	1
8	1	9	.....	.....	5,000	.....	150	5,000	.....	1.00	.....	1	..
275	65	340	.....	.....	85,595	42,452	215	128,047	.....	\$0.9753	.....	25	4
5,840	2,198	8,038	1,731,845	170,746	263,620	284,104	215	3,450,315	.....	\$0.7925	.....	145	39

\* 12,625 tons mined by the day.



## SECOND INSPECTION DISTRICT, 1904.

### TWENTY-FIRST ANNUAL REPORT.

Counties: Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Warren.

THOMAS HUDSON, *Inspector, Galva.*

HON. DAVID ROSS,  
*Secretary State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In accordance with section 12 of an act of the General Assembly State of Illinois, defining the duties of the state inspectors of coal mine providing for the better preservation of the health and safety of all p employed therein, I have the honor of submitting herewith, the twent annual report of the coal mines located in the second inspection district prising the coal producing counties of Bureau, Henry, Knox, Marshall, A Rock Island, Stark and Warren.

The tables, or tabular information included in this report, contain essential information in regard to the number of miners, and other em underground and on the surface, engaged in the coal mining industry district; the number of mines of both classes, shipping and local; th pendicular depth of the various shafts and slopes; the thickness and g cal number of the different seams; the amount of powder and dynamit sumed in blasting coal, also for rock excavations; the number of acci fatal and non-fatal; the tons of coal of the various grades that have bee duced, with the prices paid for mining and the selling prices of the The averages, ratios and percentages are also given. In fact, all tl necessary, from a calculator's standpoint is contained in the tabular p the report.

The following summary for the district is presented for the year e June 30, 1904:

Total number of mines .....	
Number of shipping mines .....	
Number of mines in local trade only .....	
Number of miners employed .....	
Number of others underground .....	
Number of boys underground .....	
Number employed on the surface .....	
Total number of employes .....	
Number of kegs of powder consumed—for all purposes .....	
Tons of lump coal produced .....	2,4
Tons of all other grades, combined .....	9
Total product in tons of 2,000 pounds .....	3,2
Tons shipped on cars at mine .....	2,7
Tons sold to local consumers .....	5
Tons used for steam purposes, at mines .....	1
Tons supplied to locomotives, at mines .....	1
Aggregate value of the total product .....	\$4.2
Average number of days of active operation—shipping mines .....	
Number of fatal accidents .....	
Number of non fatal accidents .....	
Total number of accidents .....	
Number of employes to each fatal accident .....	
Number of employes to each non-fatal accident .....	

Tons of coal produced to each fatal accident.....	474,641
Tons of coal produced to each non-fatal accident.....	24,609
Tons of coal produced to each miner employed.....	618
Tons of coal produced to each employé, all classes.....	451
Number of steam boilers in use at the mines.....	142
Number of ventilating fans in use at the mines.....	31
Ratio of fatal accidents per 1,000 persons employed.....	0.95

A comparative table follows, showing the product in tons of the different coal producing counties in the district, with the increase or decrease in each, for the years ending June 30, 1903 and 1904.

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1903	1904		
Bureau.....	1,778,302	1,832,577	54,275	
Henry.....	130,663	151,887	21,224	
Knox.....	84,575	89,992	5,417	
Marshall.....	465,079	476,239	11,160	
Mercer.....	648,070	601,508		46,562
Rock Island.....	85,700	91,793	6,093	
Stark.....	39,406	61,040	21,634	
Warren.....	13,986	17,454	3,468	
Total.....	3,245,781	3,322,490	123,271	46,562
Net increase.....			76,709	

The counties of Bureau, Henry, Knox, Marshall, Rock Island, Stark, and Warren, combined, show an increase of 123,271 tons; while Mercer county shows a decrease of 46,562 tons; leaving a net increase for the district, over the year previous, of 76,709 tons.

#### NEW MINES.

One new mine only of the shipping class has gone into operation during the year; this was shaft No. 4, operated by the Alden Coal company, located near Wanlock, Mercer county. Active operation began Sept. 15, 1903.

In the fall of 1903, the Volunteer Coal company sunk a shaft near Coal alley, Rock Island county, and fully expected to get track connections with the C. R. I. & P. R. R., but up to July, 1904, the branch had not been constructed. It may be put in later, however. The output of the mine will always be quite limited.

#### MINES WORKED OUT AND ABANDONED.

The Atlas Coal company's mine No. 2, located near Galva, Henry county, has been worked out and was abandoned April 1, 1904. Preparations are being made, however, by the same company for the opening of a new shaft near the location of the one abandoned. It is likely that it will be in operation by September, 1904.

#### SHAFT BUILDINGS BURNED.

Dec. 17, 1903, the tower of the Alden Coal company's mine No. 2, located at Wanlock, Mercer county, was destroyed by fire. The engine and boiler rooms, blacksmith and carpenter shops, fan, fan-house, etc., were saved. The fire broke out on the top landing, about 6 o'clock in the evening, the origin of the fire is unknown; the amount of damage was \$1,800, fully insured. The building of a new tower was begun at once, and active coal hoisting operations commenced Jan. 5, 1904.

Several buildings of the local mine, operated by Alfred Lilliman, at Cable, Mercer county, were burned down Dec. 22, 1903. The fire started about 4 o'clock in the morning. It destroyed the gin-ring, boiler house, tower, and about eight feet of the top part of the shaft lining. The fan, fan-house and

escape shaft were uninjured. The fire was probably caused by a spark from the night watchman's lamp, as he went below to look after the pump, as the fire seemed to have started soon afterwards. The tower was rebuilt, and coal again hoisted Jan. 13, 1904. The loss was about \$1,500, uninsured.

About midnight, Nov. 13, 1903, a very distressing fire took place in the mule stables, near the bottom of the No. 2 shaft, operated by the Spring Valley Coal company, at Spring Valley, Bureau county. The origin of the fire is unknown, but as it occurred at the time when the night shift men leave the mine, it is quite possible that it was caused from a spark dropping from some careless miner's lamp, among the loose hay, of which there is generally an abundance scattered around. Seventeen of the largest, best and most costly mules in the mine were burned in this fire. The mine was idle one day only in consequence, but the output was greatly reduced for some time until the mules could be replaced.

#### ESCAPEMENT SHAFTS.

The following escapement shafts, with the name of the operator, location of the mine, and the depth thereof, in feet, have been sunk during the year:

OPERATOR.	Location.	County.	Depth in feet.
Alden Coal Co.....	Wanlock.....	Mercer.....	140
Galva Coal Co.....	Wataga.....	Knox.....	68
Herdien Coal Co. No. 16.....	Galva.....	Henry.....	50
Kewanee M. & M. Co.....	Kewanee.....	Henry.....	78
Yates City Coal Co.....	Yates City.....	Knox.....	*107
Fred Henry.....	Kewanee.....	Henry.....	52
St. Paul Coal Co.....	Granville.....	Putnam.....	400
Johnson & Herman.....	Kewanee.....	Henry.....	30
Bert Ballentine.....	Wyoming.....	Stark.....	62
Volunteer Coal Co.....	Coal City.....	Rock Island.....	68

\* Sunk from No. 5 to No. 2 seam.

#### IMPROVEMENTS AND FUTURE PROSPECTS.

The most notable improvements that have been made during the year have been in Bureau county. Shaft No. 3 at Spring Valley, and Shaft No. 4 at Seatonville, both operated by the Spring Valley Coal Co., have been equipped with magnificent steel towers. At the latter place a new shaft has been sunk, new winding engines and boilers have been installed, and a Cape Henry is in course of erection. Six of the seven large mines in Bureau county are now equipped with steel towers. Five of these mines have in operation the famous Capell fan. This is certainly the best and at the same time, the most expensive ventilator known to the Mining world.

In the annual report for 1903, it was confidently predicted that Putnam county would be added to the list of coal producing counties in the second decade for 1904. Owing, however, to bad ground met with in sinking at the St. Paul Coal Co.'s shaft at Granville, this county, that prediction has not been fulfilled. The sinking of the first shaft progressed favorably, until a depth of about 120 feet was reached. At this point, a large layer of sand and a heavy flow of water was encountered, and the initial attempt at sinking had to be abandoned. Drilling was then commenced, for the purpose of finding a more favorable location. This was eventually found, and at the present writing both main and escape shafts have pierced the seam.

at a depth of 482 feet, the latter being located on lower ground. Coal shed at 460 feet; the shafts have been connected underground. The No. 2 of the Illinois section, three feet two inches thick; the coal is of ality as is usual with that seam. The overlying and underlying strata p very favorably for long-wall mining, which will be the system at this mine. A steel tower is being erected, and it is fully expected December 1904 coal hoisting will be fairly commenced.

dition to the new mine at Granville, Putnam county, the St. Paul Coal shortly add another first class mine to those already in operation in county. The company has secured a large tract of coal land, and the of the main shaft has already commenced. The new mine is located iles north of Ladd, and a new mining town will certainly spring into e in that locality.

ard to the other coal producing counties in the second district, very ange in the output may be expected; but with Putnam added to the ducing counties in the district and the improvements intended to e coal production in the district, also the proposed new mines of the ss, in Bureau county, an increase in the output of the second district ed.

#### FATAL ACCIDENTS.

ollowing is a detailed statement of the fatal accidents that have taken the second inspection district during the year ending June 30, 1904. 3, 1903, August Romanisky, miner, aged 47 years, married, was killed y by a fall of roof at the switch of his working room, in Spring Val- e No. 4, located at Seatonville, Bureau county. The driver had pulled l car from the face of the room in which the deceased was working; ag around the curve at the switch the car struck against the outside ilding and lodged there; the driver went away and left the car; on tion it was evident that the deceased had been trying to get the car l and that a large mass of roof had suddenly fallen crushing his head, him instantly. He leaves a widow and one child in Russia.

1, 1903, Ivy Murdock, miner, aged 29 years, married, was severely by powder and bruised by coal flying from a premature blast in Moore histroms' local mine, located near Coal Valley, Rock Island county. d had charged a drill-hole with loose powder, and was in the act of g it to the back of the hole with an iron scraper; it is assumed the struck a piece of sulphur, which generated a spark, igniting the and the explosion followed. The heel of the shot was blown off by losion, and the coal flying therefrom, struck the deceased bruising erely on his head and body. He died from the injuries received six fter the accident. Two other miners were in the room, visiting with k at the time of the explosion, one was severely and the other one burned. Deceased leaves a widow and three children.

2, 1904, Charles Westerfield, miner, aged 21 years, single, was killed y by being struck on the head and body by coal flying from a prema- st in the Wyoming Coal Co.'s mine, Wyoming, Stark county. The d with his brother, were working in a room; they had drilled a hole ve feet in depth and had charged it with powder, and had commenced the blast, they had about two or three inches of tamping on the when the explosion took place. A copper needle and copper tipped r bar were used in accordance with law, just how this accident could ee under the conditions stated at the inquest, is quite difficult to de- . The brother of the deceased was severely injured.

3, 1904, William T. Baines, miner, aged 52 years, married, was killed y by a fall of roof at the face of his working place in the mine oper- the Yates City Coal Co., located near Yates City, Knox county. De- und his partner were driving the main north entry. A clay slip had uck running nearly parallel with the working face, this slip was l or exposed the entire width of the entry, except about five feet on s. A blast had been fired in the remaining five feet, exposing the slips ross the entry. After firing the blast Baines went to work at the

face, the blast having shaken the roof it suddenly fell with the result as stated, also seriously injuring his partner. Deceased leaves a widow and two children.

March 31, 1904, Anton Zolinas, miner, aged 28 years, single, was killed by falling into the sump or cage seat at mine No. 3, operated by the Spring Valley Coal Co., Spring Valley, Bureau county. It is customary at the Spring Valley mines for all miners to be out of the mine at 4:30 p. m. About that time a blacksmith went to the bottom of the shaft to repair a water pipe. Shortly before six o'clock deceased came from the inside workings to the shaft bottom, but could not be hoisted because of repairs being made there. He was advised to go to the escape shaft, about 300 feet from the main shaft, in which there is a good stairway. He left the bottom of the main shaft seemingly for the purpose of going to the escape shaft; this was the last seen of him alive. On the following day he was reported missing from his boarding house. A searching party was organized at once, going into the mine. They failed to find him in his working place; when they returned to the shaft bottom they found his dinner bucket in the north cage seat and his dead body in the south one. It seemed evident that the deceased had returned to the main shaft after the blacksmith had gone and that he had attempted to climb up the buntons, as the marks of his hands and feet could be traced for a distance of about 75 feet up the shaft where, in all probability, he had slipped, falling to the bottom. It may be added that the sump or cage seat is about ten feet deep, as double-decked cages are in use at this mine.

May 23, 1904, Robert Bradbeer, machinist, aged 45 years, married, was killed instantly by being caught in the machinery of the coal washing plant at the Illinois Third Vein Coal company's mine, Ladd, Bureau county. Deceased had charge of the jiggling apparatus at the coal washer. By some means, which could not be explained, he got his foot caught in the machinery; his leg was drawn in and crushed up to the groin. The engine was stopped as soon as the alarm was given, but life was extinct before he could be extricated. He leaves a widow and five children.

June 11, 1904, Charles Mazeika, driver, aged 30 years, single, was severely injured in the spine, near the base of the brain, by being crushed under a loaded pit-car in mine No. 3, operated by the Spring Valley Coal Co., Spring Valley, Bureau county. He died from the injuries seven days after the accident. Deceased was employed as a driver in the mine. In passing with a loaded trip through a sheet or canvass put up to control the ventilation, his light was extinguished. He either fell or was knocked from the front of the car on which he was riding, the mule pulling the car onto him.

Two other fatalities have occurred at the coal mines in this district during the year, but owing to the circumstances under which they occurred it is not thought advisable to enter them on the tabular forms, nor charge them up against the mines at which they took place. Yet it seems necessary to mention them in this report. The facts are substantially as follows:

December 24, 1903, Nicholas Alberson, miner, of Princeville, Peoria county, was severely crushed by falling down the shaft, 124 feet, at the Wyoming Coal company's mine, located at Wyoming, Stark county. Deceased came from Princeville to Wyoming on a visit. He was not an employé of the Wyoming Coal company. He went to the mine to visit the engineer and others employed there with whom he was acquainted. He walked to the doors at the ground landing and opening the south door deliberately stepped into the south cage-way and fell to the bottom of the shaft. He was conscious when brought to the surface and stated that he was going into the engine room. He died from the injuries one hour after being brought from the mine.

April 2, 1904, August Wahlgren, company man, aged 64 years, married, died suddenly from natural causes in the Coal Valley Mining company's shaft No. 1, located at Cable, Mercer county. Deceased, with his partner, were engaged laying track and was in the act of drawing a spike with a spike-bar. Leaving the spike-bar he sat down at the side of the entry and died without making any complaint whatever to his partner, who was working near him at the time. Wahlgren had been suffering from heart trouble for some time.

previous, and that was given as the cause of his death. No inquest was held as the attending physician said it was a clear case of heart failure and that a post mortem examination was unnecessary.

Following are the regular and usual tables and schedules for each county in the second inspection district.

Respectfully submitted,

THOMAS HUDSON,  
*State Inspector of Mines Second District, Galva, Ill.*

*Fatal Casualties—Second District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children. Single.	Dependent.	Cause of accident.
1903.									
Aug. 6	August Romaniski ..	47	Miner. ....	Seatonville ..	1	1	1	2	Falling roof.....
Oct. 31	Ivy Murdock.....	29	Miner.....	Coal Valley..	1	1	3	4	Premature blast.....
1904									
Jan. 12	Chas. Westerfield....	21	Miner.....	Wyoming ..	..	..	1	..	Premature blast.....
Mar. 3	Wm. T. Baines.....	52	Miner.....	Yates City..	1	1	2	3	Falling roof.....
31	Anton Zolinas.....	28	Miner.....	Spring Vall'y	..	..	1	..	Falling down shaft.
May 23	Robt. Bradbeer.....	45	Machinist...	Ladd.....	1	1	5	6	Mch'y of coal washer
June 11	Chas. Mazeika.....	30	Driver.....	Spring Vall'y	..	..	1	..	Loaded pit car.....
	Total 7.....	..	.....	.....	4	4	11	3 15	

*Compilation of Fatal Accidents—Second District—July 1, 1904.*

PLACE.	No.	Occupation.	No.	Nature of casualty.	No.	Colliery.	No.
Alton...	1	Driver.....	1	Caught by mach. of coal washer.....	1	Ill. 3d Vein Coal Co...	1
.....	1	Machinist.....	1	Crushed under loaded pit car.....	1	Moore & Wahlstrom...	1
Alton...	1	Miners.....	5	Falling down shaft.	1	Spring Val. Coal Co...	3
Valley...	2			Falling roof.....	2	Wyoming Coal Co....	1
ing.....	1			Premature blast.....	2	Yates City Coal Co....	1
City.....	1						
Totals.....	7		7		7		7



## Non-Fatal Casualties—Second District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903.										
July	12 James Sabons.	33	Co. man	Spring Valley	1	1			Head cut, falling roof	95
Aug.	8 Fred. Mallin.	38	Miner	Wataga	1		4	5	Leg broken, falling roof	90
	12 Joseph Schmidt	60	Miner	Ladd	1		1	1	Head cut, caught by pit car	45
	13 Joseph Davitt	45	Miner	Etherley	1		1	1	Head bruised, premature blast	46
	17 Lars Agesson	40	Miner	Kewanee	1		1	1	Body bruised, falling coal	35
	24 John Chemolski	48	Miner	Spring Valley	1		1	1	Foot bruised, falling roof	180
	25 John Cicel	28	Miner	Toluca	1		1	1	Leg broken, falling coal	60
	25 A. C. Barr	47	Miner	Viola	1		1	1	Eye put out, flying splint of steel	83
Sept.	3 Ed Grimeaux	35	Co. man	Spring Valley	1		1	1	Head injured, falling roof	115
	19 Wm. Smith	22	Driver	Spring Valley	1		1	1	Leg crushed, by pit car	150
	21 George Jones	33	Miner	Sherrard	1		1	1	Foot crushed, falling roof	37
	24 N. C. Carmel	47	Miner	Spring Valley	1		1	1	Shoulder bruised, falling coal	103
	26 Dan Sullivan	34	Driver	Seatonville	1		4	5	Fingers (3) cut off, by pit car	33
Oct.	3 Jas. Few	53	Miner	Sherrard	1		1	1	Thumb crushed, falling coal	120
	6 Joe. Hoznay	20	Driver	Toluca	1		1	1	Ankle broken by pit car	132
	13 John Demonski	54	Miner	Spring Valley	1		1	1	Leg bruised by pit car	50
	13 John Hardy	62	Trapper	Spring Valley	1		1	1	Body bruised, by tipple	50
	17 Frank Kofel	23	Top-man	Spring Valley	1		1	1	Leg bruised, by pit car	90
	30 Geo. Steens	27	Driver	Spring Valley	1		1	1	Face burned, exploding loose powder	30
Nov.	31 Fred. Trapp	46	Miner	Coal Valley	1		1	1	Leg broken, falling coal	30
	3 Geo. Gilebas	24	Top-man	Spring Valley	1		1	1	Foot bruised, by steam ram	100
	3 Bart. Ziebarth	43	Miner	Toluca	1		1	1	Ribs fractured, falling coal	33
	15 Silvio Charles	24	Miner	Spring Valley	1		6	7	Ankle bruised, falling coal	100
	25 Saul Williams	42	Miner	Spring Valley	1		1	1	Leg broken, by pit car	30
	25 Dominick Robeco	32	Driver	Lates City	1		1	1	Toes crushed, falling coal	30
	27 Jos. Massa	20	Miner	Toluca	1		1	1	Back crushed, descending cage	30
Dec.	28 John Bradwell	30	Co. man	Kewanee	1		4	5	Knee bruised, falling coal	32
	3 Peter Vernetti	28	Miner	Spring Valley	1		1	1	Toe broken, falling roof	40
	3 Frank Gerardi	26	Miner	Toluca	1		1	1	Back bruised, falling roof	40
	7 A. Tantagrossi	28	Miner	Sherrard	1		1	1	Head bruised, by pit car	30
	8 Richard Parks	33	Driver	Ladd	1		1	1	Arm bruised, falling roof	33
	9 E. Pasquala	36	Co. man	Seatonville	1		1	1	Toes (3) cut off, falling roof	40
	10 Pito Gherdino	30	Co. man	Marquette	1		1	1	Foot bruised, falling roof	40
	10 P. B. Sturmes	41	Miner	Wanlock	1		1	1	Ankle crushed, falling coal	43
	16 Grant McFate	16	Trapper	Marquette	1		1	1	Leg broken, pit car	120
	17 Wm. Matis.	16	Trapper		1		1	1		

1904.	4 J. Vinslek	36 Miner	Wenona	3 Ankle crushed, falling roof.	66
Jan.	8 John A. Patton	23 Miner	Wanlock	4 Back bruised, falling roof.	30
	9 A. Tullaki	43 Miner	Spring Valley	3 Arm injured, falling coal.	82
	9 Anton Mussetti	49 Miner	Spring Valley	3 Hand injured, falling coal.	82
	12 M. B. Westerfield	24 Miner	Wyoming	3 Body bruised, falling coal.	82
	14 B. Berco	30 Miner	Marquette	3 Leg broken, falling roof.	120
	15 James Ryan	21 Driver	Toluca	3 Toe cut off, pit car.	90
	15 Robt. Shaw	17 Driver	Spring Valley	3 Head injured, falling roof.	45
	30 Alex. Zeronke	44 Miner	Spring Valley	1 Back injured, falling roof.	37
Feb.	1 John Gumbo	38 Miner	Spring Valley	6 Thigh broken, falling coal.	*
	1 Tim. Sheahan	20 Miner	Toluca	3 Foot crushed, by pit car.	*
	3 Fred Sheehing	26 Driver	Sherrard	3 Arm injured, falling coal.	55
	4 J. A. Rohr	64 Miner	Monmouth	3 Finger broken, falling coal.	35
	6 Peter Gagliatini	23 Miner	Spring Valley	3 Ribs injured, falling coal.	32
	13 M. Zigmont	60 Miner	Spring Valley	3 Leg broken, falling roof.	36
	13 Val. Graccolotto	19 Miner	Dalzell	6 Leg broken, falling roof.	*
	18 Jos. Cerellone	54 Miner	Toluca	6 Hips injured, struck by timber.	*
	20 Roger Piercy	45 Boiler maker	Spring Valley	3 Ankle crushed, falling roof.	*
Mar.	20 A. Smock	60 Miner	Wenona	3 Back injured, falling coal.	40
	2 John Troya	20 Driver	Spring Valley	3 Body bruised, falling roof.	60
	3 Jas. Nichols	31 Miner	Yates City	3 Leg broken, by pit car.	80
	7 Frank Saninor	25 Co. man	Spring Valley	3 Collar bone broken, falling coal.	100
	13 George Ciso	38 Miner	Spring Valley	6 Leg broken, falling roof.	85
	18 Geo. Daniel	50 Co. man	Wanlock	6 Leg broken, by pit car.	90
	18 Frank Puckett	30 Top boss	Spring Valley	3 Shoulder injured, falling roof.	40
	23 G. Monastelle	33 Miner	Dalzell	3 Hand injured, falling roof.	37
	23 August Streed	27 Miner	Spring Valley	3 Back injured, falling roof.	37
	26 A. Mazumrithy	36 Miner	Sewanee	3 Foot crushed, falling coal.	34
	29 John Jeske	30 Driver	Spring Valley	4 Hand injured, fall chain.	68
Apr.	3 Myron Scherer	30 Trimmer	Ladd	4 Hand bruised, R. R. car.	70
	6 Owen Barry	22 Driver	Ladd	3 Leg broken, by pit car.	45
	6 L. Musserella	22 Miner	Dalzell	2 Finger cut off, falling coal.	*
	7 Jas. Denfilpe	27 Miner	Spring Valley	3 Foot crushed, falling coal.	34
	9 Chas. Denotto	27 Miner	Dalzell	3 Leg broken, falling coal.	45
	14 C. Goldman	25 Cager	Spring Valley	3 Hip bruised, falling coal.	45
	14 J. Zocobowique	22 Co. man	Spring Valley	3 Leg bruised by pit car.	50
	16 Louis Smith	33 Miner	Dalzell	4 Hand cut, by fall chain.	30
	26 Louis Gandy	21 Miner	Spriand	3 Toe crushed, falling coal.	*
	26 Wm. French	23 Miner	Viola	3 Leg broken, falling coal.	50
	10 Walter Lockhart	28 Miner	Viola	3 Face burned, exploding loose powder.	45
May	10 Jonathan Milner	28 Miner	Dalzell	3 Back bruised, falling roof.	45
	14 G. Canton	23 Co. man	Marquette	3 Leg broken, falling timber.	30
	15 A. Shimpitus	23 Miner	Spring Valley	3 Leg broken, falling coal.	*
	17 G. Costa				*

## Non-Fatal Casualties—Second District—July 1, 1904—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1904										45
May	17 Allen Hotchkiss.	40	Driver	Kewanee	1	1	2	3	Collar bone broken, by pit car.	45
	17 Geo. Casper.	26	Miner.	Spring Valley	1	1	1	2	Body bruised, falling roof.	35
	23 P. Cola.	33	Miner.	Toluca	1	1	4	5	Leg cut, falling coal.	35
June	13 P. Stephanio.	33	Miner.	Toluca	1	1	1	3	Collar bone broken, falling roof.	35
	16 John Stark.	33	Miner.	Dalzell	1	1	1	2	Toes crushed, falling roof.	35
	20 David Reed.	53	Miner.	Seatonville	1	1	5	6	Leg bruised, falling roof.	35
	21 Louis Romanolia.	32	Miner.	Dalzell	1	1	1	3	Toes crushed, by pit car.	35
	27 Jas. Gregg, Jr.	19	Driver	Dalzell	1	1	1	2	Foot bruised, by pit car.	35
	27 Alex. Smarduk.	23	Co. man.	Spring Valley	1	1	2	3	Back injured, falling roof.	35
	28 John Machulis.	23	Miner.	Dalzell	1	1	1	3	Ankle bruised, falling coal.	35
	30 Mike Geneski.	33	Miner.	Spring Valley	1	1	1	3	Foot crushed, falling coal.	35
	Totals.				56	40	145	201		4,454
* Not recovered July 1, 1904.										
Total men injured.				98	Total time lost by men recovered.					4,454 days
Not recovered July 1, 1904.				28	Average time lost by men recovered.					64 days
Number recovered July 1, 1904.				70						

*Compilation of Non-Fatal Accidents—Second District—July 1, 1904.*

PERSON.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
Wiley ..	1	Boiler maker ..	1	Cage, descending ..	1	Alden Coal Co.....	5
.....	10	Cager.....	1	Coal flying from ..	1	Coal Valley Min. Co.	4
y .....	1	Car trimmer ..	1	premature blast...	2	Cook & Rohr's local	
ze .....	4	Co. men .....	9	Expl'd'g f'se powdr	3	mine .....	1
.....	4	Drivers.....	15	Falling coal.....	32	Devlin Coal Co.....	12
tte .....	5	Miners .....	63	Falling roof.....	29	Etherley Coal Co....	1
outh .....	1	Top boss .....	1	Falling timber .....	1	Ill. 3d Vein Coal Co.	4
ille .....	4	Top men.....	3	Pit cars; caught by..	21	Kewanee Coal Co....	3
l .....	4	Trappers.....	2	Railroad car; struck		Kewanee Min. & Mfg.	
d .....	2			by .....	1	Co.....	1
Valley ..	36			Scantling; struck by	1	G. W. Martins' local	
.....	12			Steam ram; struck		mine .....	1
.....	3			by .....	1	Marquette 3d Vein	
k .....	3			Steel; flying from		Coal Co.....	8
.....	1			drill head.....	1	Moore's local mine ..	1
a .....	2			Tail chain; caught		Spring Valley C'al Co.	49
ng .....	1			by .....	2	Taylor's local mine ..	1
ity .....	2			Tipple; caught by..	1	Wenona Coal Co.....	2
						Wyoming Coal Co....	1
						Yates City Coal Co...	2
als .....	96		96		96		96

*Showing List of Non-Fatal Casualties, Nature of Injuries, Time Lost, and Percentages—Second District—July 1, 1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
broken .....	2	1	1	3	200	100.00	2.08
injured.....	5	4	1	15	194	64.67	5.20
jured .....	3	2	1	9	147	47.67	3.12
jured .....	8	5	3	10	214	35.66	8.33
njured .....	6	4	2	10	266	53.20	6.25
one broken .....	3	2	1	18	190	65.00	3.12
t .....	1	1		3	60	60.00	1.04
rned.....	3	2	1	5	170	56.67	3.12
broken .....	1	1		3	32	32.00	1.04
cut off .....	2	2		8	146	73.00	2.08
jured .....	11	6	5	24	436	62.30	11.46
njured .....	4	1	3	3	199	59.75	4.17
njured.....	7	4	3	14	381	63.50	7.30
jured .....	2	1	1	6			2.09
jured .....	1	1		5	30	30.00	1.04
oken .....	18	9	9	39	1,040	104.00	18.75
jured .....	6	3	3	15	326	65.20	6.25
ured .....	2	1	1	3	136	68.00	2.09
rs injured .....	2	2		5	77	38.50	2.09
injured .....	1		1	5	33	33.00	1.04
roken .....	1	1					1.04
ken .....	1		1		32	32.00	1.04
off .....	2	1	1	2	175	87.50	2.09
jured .....	4	2	2	6	30	30.00	4.17
als .....	96	56	40	211	4,454	63.63	100.00

*Bureau County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Net.
SHIPPING MINES.							
1	Spring Valley Coal Co., No. 1....	Spring Valley	348,600	31,782	261,426	.....	2,702
2	Spring Valley Coal Co., No. 1....	Spring Valley	331,926	16,416	262,365	.....	.....
3	Spring Valley Coal Co., No. 3....	Spring Valley	266,632	16,832	208,408	.....	1,240
4	Illinois Third Vein Coal Co., No. 1	Ladd .....	248,464	8,790	197,368	.....	.....
5	Marquette Third Vein C. Co., No. 1	Marquette ..	247,142	19,006	179,368	11,664	.....
6	Spring Valley Coal Co., No. 5....	Spring Valley	242,788	1,491	203,277	.....	2,134
7	Spring Valley Coal Co., No. 4....	Seatonville ...	115,178	4,502	85,620	.....	.....
Totals .....			1,800,730	98,819	1,397,832	11,664	6,076
LOCAL MINES.							
1	Wm. Brandt .....	Mineral .....	6,374	.....	5,958	.....	.....
2	Edward Donahue .....	Sheffield .....	4,322	.....	3,602	.....	.....
3	Wm. Masters & Son .....	Sheffield .....	4,114	.....	4,114	.....	.....
4	Jas. Kimmerling .....	Sheffield .....	2,980	.....	2,780	.....	.....
5	Wm. Smith & Sons .....	Princeton .....	2,958	.....	2,958	.....	.....
6	Thos. Herrington .....	Princeton .....	2,410	.....	2,410	.....	.....
7	Strand & Norien .....	Sheffield .....	1,896	.....	1,896	.....	.....
8	John V. Duncan .....	Sheffield .....	1,720	.....	1,600	.....	.....
9	Nelson & Scott .....	Sheffield .....	1,666	.....	1,666	.....	.....
10	A. W. Walton .....	Princeton .....	1,032	.....	1,032	.....	.....
11	C. W. Riley .....	Sheffield .....	875	.....	875	.....	.....
12	George Heathcock .....	Princeton .....	840	.....	840	.....	.....
13	Matt Duncan .....	Sheffield .....	248	.....	248	.....	.....
14	Tiskilwa Coal Co. ....	Tiskilwa .....	212	.....	212	.....	.....
15	J. B. Driscoll .....	Tiskilwa .....	120	.....	120	.....	.....
16	Chas. Gotheridge .....	Sheffield .....	80	.....	80	.....	.....
Totals .....			31,847	.....	30,391	.....	.....
Totals—23 mines .....			1,832,577	98,819	1,428,223	11,664	6,076

Mines in 1903, 20.

New mines, 3.

Mines in 1904, 23.

*Bureau County—Second District—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	12, 114	\$497, 617	550	200	750	311, 414		19, 668	17, 518	267	348, 600	1
	478, 132	567	223	790	300, 886	17, 534		13, 506	257	331, 926	2	
	1, 862	384, 794	581	162	743	258, 024		8, 608	213	266, 632	3	
		356, 033	430	139	569	230, 466	2, 100	10, 328	5, 570	266	248, 464	4
		403, 822	400	115	515	231, 714		3, 126	12, 332	245	247, 142	5
	5, 158	351, 486	352	116	468	236, 000		1, 538	5, 250	287	242, 788	6
		159, 806	270	224	494	101, 022		4, 502	9, 654	242	115, 178	7
	19, 134	\$2, 631, 690	3, 150	1, 179	4, 329	1, 669, 526	19, 634	39, 162	72, 408	254	1, 800, 730	
		\$10, 635	12	3	15			6, 174	200	240	6, 374	1
		5, 763	10	3	13			4, 322		205	4, 322	2
		7, 199	12	2	14			4, 114		150	4, 114	3
		4, 270	6	2	8			2, 780	200	250	2, 980	4
		5, 916	6	1	7			2, 958		190	2, 958	5
		4, 820	6	1	7			2, 410		200	2, 410	6
		3, 792	5	1	6			1, 896		200	1, 896	7
		3, 320	5	1	6			1, 720		200	1, 720	8
		2, 916	5	1	6			1, 666		250	1, 666	9
		2, 064	4	1	5			1, 032		150	1, 032	10
		1, 312	4	1	5			800	75	125	875	11
		1, 680	3	1	4			840		100	840	12
		496	3	1	4			248		70	248	13
		424	2	1	3			212		125	212	14
		240	3		3			120		65	120	15
		120	1	1	2			80		60	80	16
		\$54, 967	87	21	108			31, 372	475	183	31, 847	
	19, 134	\$2, 686, 657	3, 237	1, 200	4, 437	1, 669, 526	19, 634	70, 534	72, 883	.....	1, 832, 577	

TE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.79.  
 erage price for year, \$0.8125 per ton.  
 erage price paid for hand mining, local mines, for the year, \$0.927 per ton.

*Henry County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Kewanee Coal & Min. Co., No. 1	Kewanee .....	56,290		36,560		
2	Atlas Coal Co., No. 1	Galva .....	11,969		11,589		200
3	Briar Bluff Coal Co.	Briar Bluff .....	2,480		1,840		
Totals .....			70,739		50,019		200
LOCAL MINES.							
1	Kewanee Mining & Mfg. Co.	Kewanee .....	15,000		9,000		1,500
2	Kewanee Cooperative Coal Co.	Kewanee .....	11,702		10,972		
3	Herdien Coal Co., No. 15	Galva .....	8,500		8,000		
4	Herdien Coal Co., No. 16	Galva .....	7,780		7,180		
5	Emil Ahlgren	Kewanee .....	5,000		4,300		
6	Bates Bros	Kewanee .....	3,480		3,280		
7	Fred. Henry	Kewanee .....	3,400		3,200		
8	William G. Kay	Atkinson .....	3,280		2,800		
9	James Fairlie	Cambridge .....	3,232		2,154		300
10	Dixon & Martin	Kewanee .....	2,880		2,880		
11	Matt. Atkinson	Kewanee .....	2,414		2,414		
12	Ben. Price	Kewanee .....	2,120		2,120		
13	Ab. Hodggett	Kewanee .....	2,048		2,048		
14	John Herman & Co	Kewanee .....	2,040		1,488		
15	Hartman & Bocroft	Atkinson .....	1,774		1,448		
16	Ed Wells	Briar Bluff .....	1,600		1,200		
17	Robert Kay	Briar Bluff .....	1,040		1,040		
18	Wm. Lamb	Kewanee .....	800		800		
19	North Main Coal Co.	Kewanee .....	880		640		
20	James Waine	Atkinson .....	440		400		
21	Leo Maloen	Kewanee .....	400		400		
22	R. E. Maloen	Kewanee .....	384		384		
23	Joseph Carter	Kewanee .....	374		374		
24	John Summerson	Coal Valley .....	320		320		
25	Richard Golden	Kewanee .....	120		120		
26	G. I. Wilson	Kewanee .....	120		120		
Totals .....			81,128		68,982		1,800
Totals—29 mines.....			151,887		119,001		2,000

Mines in 1903, 31.

New mines, 4.

Abandoned mines, 6.

Mines in 1904, 29.

*Henry County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
19,700	.....	\$73,319	82	21	103	45,000	.....	9,490	1,800	266	56,290	1
200	.....	20,415	25	5	30	10,079	.....	1,510	400	200	11,989	2
640	.....	4,224	7	2	9	2,458	.....	22	.....	180	2,480	3
20,540	.....	\$97,958	114	28	142	57,537	.....	11,022	2,200	215	70,759	
4,500	.....	\$23,850	14	5	19	.....	.....	14,500	500	235	15,000	1
730	.....	22,309	14	3	17	.....	.....	11,402	300	275	11,702	2
500	.....	15,850	21	3	24	.....	.....	8,000	500	290	8,500	3
600	.....	13,942	25	4	29	.....	.....	7,480	300	200	7,780	4
800	.....	9,000	10	2	12	.....	.....	5,000	.....	250	5,000	5
200	.....	6,660	8	1	9	.....	.....	3,280	200	225	3,480	6
200	.....	6,500	9	1	10	.....	.....	3,200	200	200	3,400	7
480	.....	7,240	7	2	9	.....	.....	3,030	250	200	3,280	8
718	.....	6,643	10	3	13	.....	.....	2,982	250	225	3,232	9
.....	.....	1,760	6	1	7	.....	.....	2,880	.....	204	2,880	10
.....	.....	4,828	7	1	8	.....	.....	2,414	.....	240	2,414	11
.....	.....	4,240	6	1	7	.....	.....	2,120	.....	160	2,120	12
.....	.....	4,096	6	1	7	.....	.....	2,048	.....	155	2,048	13
552	.....	3,390	6	1	7	.....	.....	2,040	.....	203	2,040	14
326	.....	3,783	6	2	8	.....	.....	1,574	200	200	1,774	15
400	.....	2,700	5	1	6	.....	.....	1,600	.....	150	1,600	16
.....	.....	2,080	5	.....	5	.....	.....	1,040	.....	170	1,040	17
.....	.....	1,600	4	1	5	.....	.....	800	.....	100	800	18
240	.....	1,400	3	1	4	.....	.....	680	200	140	880	19
40	.....	820	4	1	5	.....	.....	440	.....	120	440	20
.....	.....	800	2	.....	2	.....	.....	400	.....	120	400	21
.....	.....	768	2	.....	2	.....	.....	384	.....	180	384	22
.....	.....	748	2	.....	2	.....	.....	374	.....	100	374	23
.....	.....	480	2	.....	2	.....	.....	320	.....	100	320	24
.....	.....	240	2	.....	2	.....	.....	120	.....	50	120	25
.....	.....	240	2	.....	2	.....	.....	120	.....	50	120	26
10,286	.....	\$149,967	188	35	223	.....	.....	78,228	2,900	185	81,128	
30,826	.....	\$247,925	302	63	365	57,537	.....	89,250	5,100	.....	151,887	

NOTE.—Average price paid for hand mining for year, shipping mines, \$0.756 per ton.  
Average price paid for hand mining, local mines for year, \$1.03 per ton.



*Knox County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Etherley Coal Co., No. 3.....	Etherley.....	23,080	13,252	6,068		
2	Yates City Coal Co., No. 1.....	Yates City.....	20,000		15,000		
Totals.....			43,080	13,252	21,068		
LOCAL MINES.							
1	George W. Essex.....	Galesburg.....	5,800		5,500		
2	Galva Coal Co.....	Wataga.....	5,750		5,600		
3	Pendergast Bros.....	Galesburg.....	5,012		4,652		
4	Rodell & Mitchell.....	Wataga.....	4,868		3,868		
5	George Clifford.....	Altona.....	2,920		2,920		
6	Chas. Simpson.....	Wataga.....	1,934		1,934		
7	John Sornberger & Bro.....	Victoria.....	1,600		1,600		
8	Hamilton Taylor.....	Wataga.....	1,600		1,600		
9	Terence McGovern.....	Oneida.....	1,600		1,600		
10	Bowman Bros.....	Yates City.....	1,516		1,034		312
11	S. D. McGovern.....	Oneida.....	1,450		1,450		
12	Albert Wahlburg.....	Knoxville.....	1,200		1,200		
13	Nels. Nelson.....	Victoria.....	1,074		1,074		
14	Armstrong & Robinson.....	Victoria.....	960		960		
15	Lundeen & Nelson.....	Knoxville.....	866		866		
16	George Lane.....	Knoxville.....	860		860		
17	Nelson Kennedy.....	Delong.....	720		720		
18	Louis Nodine & Son.....	Wataga.....	553		552		
19	John Todd.....	Victoria.....	520		520		
20	Chas. Morgan.....	Oneida.....	500		500		
21	Charnock & Herkstrom.....	Victoria.....	480		480		
22	Gus. Dalton.....	Yates City.....	480		320		
23	James Nelson.....	Knoxville.....	446		446		
24	Eric Strum.....	Victoria.....	416		416		
25	Chas. Tell.....	Abingdon.....	400		400		
26	E. C. DeWolfe.....	Victoria.....	360		360		
27	N. C. Anderson.....	Knoxville.....	326		270		
28	Leroy Lomax.....	Abingdon.....	320		320		
29	Miles-B. Sloan.....	Etherley.....	320		320		
30	H. E. Bonney.....	Abingdon.....	240		240		
31	William Sleep.....	Victoria.....	234		234		
32	Wm. Nelson.....	Victoria.....	200		200		
33	Charles Cross.....	Abingdon.....	200		200		
34	Oscar Nelson.....	Wataga.....	160		160		
35	Frank Brown.....	Knoxville.....	160		160		
36	Abel Dewitt.....	Abingdon.....	160		160		
37	Wm. Welker.....	Farmington.....	140		140		
38	C. J. Carlson.....	Victoria.....	120		120		
39	Eric. Herkstrom.....	Victoria.....	120		120		
40	John Cook.....	Victoria.....	120		120		
41	A. J. Ernst.....	Abingdon.....	80		80		
42	Calkins Bros.....	Wataga.....	48		48		
43	N. A. Anderson.....	Wataga.....	40		40		
44	George Arie.....	Victoria.....	40		40		
Totals.....			46,912		44,404		
Totals—46 mines.....			89,992	13,252	65,472		

Mines in 1903, 41.  
 New mines, 10.  
 Abandoned mines, 5.  
 Mines in 1904, 46.

## Knox County—Second District—Concluded.

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or Screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
3,760	.....	\$26,884	34	10	44	22,164	876	40	.....	214	23,080	1
5,000	.....	25,000	35	7	42	16,000	.....	3,000	1,000	200	20,000	2
8,760	.....	\$51,884	69	17	86	38,164	876	3,040	1,000	207	43,080	
300	.....	\$11,900	14	3	17	.....	.....	5,500	300	240	5,800	1
150	.....	9,838	19	3	22	.....	.....	5,600	150	190	5,750	2
360	.....	9,394	15	3	18	.....	.....	4,652	360	150	5,012	3
1,000	.....	7,269	10	4	14	.....	.....	4,668	200	245	4,868	4
.....	.....	5,840	8	2	10	.....	.....	2,920	.....	150	2,920	5
.....	.....	2,901	5	1	6	.....	.....	1,934	.....	186	1,934	6
.....	.....	2,800	6	1	7	.....	.....	1,600	.....	200	1,600	7
.....	.....	2,400	5	.....	5	.....	.....	1,600	.....	250	1,600	8
.....	.....	2,400	5	.....	6	.....	.....	1,600	.....	125	1,600	9
170	.....	2,465	4	1	5	.....	.....	1,366	150	170	1,516	10
.....	.....	2,537	5	1	6	.....	.....	1,450	.....	200	1,450	11
.....	.....	2,400	5	1	6	.....	.....	1,200	.....	200	1,200	12
.....	.....	1,880	4	1	5	.....	.....	1,074	.....	180	1,074	13
.....	.....	1,680	4	1	5	.....	.....	960	.....	160	960	14
.....	.....	1,732	4	1	5	.....	.....	866	.....	200	866	15
.....	.....	1,720	5	.....	5	.....	.....	860	.....	140	860	16
.....	.....	1,440	6	.....	6	.....	.....	720	.....	120	720	17
.....	.....	828	4	.....	4	.....	.....	552	.....	100	552	18
.....	.....	910	2	.....	2	.....	.....	520	.....	140	520	19
.....	.....	750	2	.....	2	.....	.....	500	.....	120	500	20
.....	.....	720	2	.....	2	.....	.....	480	.....	135	480	21
160	.....	720	2	.....	4	.....	.....	330	150	170	480	22
.....	.....	892	3	.....	2	.....	.....	446	.....	150	446	23
.....	.....	624	3	.....	3	.....	.....	416	.....	130	416	24
.....	.....	800	3	.....	3	.....	.....	400	.....	120	400	25
.....	.....	630	3	.....	1	.....	.....	360	.....	120	360	26
56	.....	568	3	.....	3	.....	.....	326	.....	180	326	27
.....	.....	640	3	.....	3	.....	.....	320	.....	160	320	28
.....	.....	560	4	.....	4	.....	.....	320	.....	80	320	29
.....	.....	540	3	.....	3	.....	.....	240	.....	90	240	30
.....	.....	409	3	.....	3	.....	.....	234	.....	60	234	31
.....	.....	300	2	.....	2	.....	.....	200	.....	100	200	32
.....	.....	400	3	.....	3	.....	.....	200	.....	120	200	33
.....	.....	240	2	.....	3	.....	.....	160	.....	100	160	34
.....	.....	320	1	.....	1	.....	.....	160	.....	120	160	35
.....	.....	320	2	.....	2	.....	.....	160	.....	120	160	36
.....	.....	210	2	.....	2	.....	.....	140	.....	87	140	37
.....	.....	210	1	.....	1	.....	.....	120	.....	80	120	38
.....	.....	180	1	.....	1	.....	.....	120	.....	120	120	39
.....	.....	180	1	.....	1	.....	.....	120	.....	60	120	40
.....	.....	160	2	.....	2	.....	.....	80	.....	60	80	41
.....	.....	72	1	.....	1	.....	.....	48	.....	35	48	42
.....	.....	60	1	.....	1	.....	.....	40	.....	30	40	43
.....	.....	60	1	.....	1	.....	.....	40	.....	30	40	44
2,196	.....	\$82,299	182	28	210	.....	.....	45,802	1,310	163	46,912	
10,956	.....	\$134,183	251	45	296	38,164	876	48,642	2,310	.....	89,992	

NOTE.—Price paid for hand mining, shipping mines, Etherley Coal Co.: From July 1, to April 1, 1904, \$0.27; April 1, 1904, to July 1, 1904, \$0.68. Yates City Coal Co.: \$0.58. Average price for hand mining, local mines, for year, \$1.056 per ton.

*Marshall County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Devlin Coal Co., No. 1.....	Toluca.....	339, 239	99, 775	179, 598		
2	Wenona Coal Co., No. 1.....	Wenona.....	121, 105		90, 681		5, 628
3	Marquette 3rd Vein Coal Co.....	Sparland.....	9, 859	272	8, 381		
Totals.....			470, 203	100, 047	278, 610		5, 628
LOCAL MINES.							
1	Frank Barr.....	Sparland.....	3, 000		3, 000		
2	R. G. Ingram.....	Sparland.....	660		660		
3	William Bough.....	Henry.....	584		584		
4	W. E. Frisbey.....	Sparland.....	556		556		
5	John Myers.....	Sparland.....	480		480		
6	William Lopeman.....	Henry.....	320		320		
7	Bernard Lanning.....	Sparland.....	180		180		
8	Louis Nighswonger.....	Sparland.....	160		160		
9	Wm. Horrocks & Sons.....	Henry.....	96		96		
Totals.....			6, 096		6, 096		
Totals—12 mines.....			476, 239	100, 047	284, 646		5, 628

Mines in 1903—15.

Abandoned mines—3.

Mines in 1904—12.

*Marshall County—Second District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
1	18,895	\$501,517	485	144	629	283,344	30,718	6,282	18,895	267	339,239	1
2	.....	226,129	175	89	264	105,705	.....	10,600	4,800	257	121,105	2
3	.....	16,570	28	14	42	7,019	.....	2,022	818	217	9,859	3
5	18,895	\$744,216	688	247	935	396,068	30,718	18,904	24,513	247	470,203	
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	\$5,250	6	.....	6	.....	.....	3,000	.....	240	3,000	1
.....	.....	990	3	.....	3	.....	.....	660	.....	140	660	2
.....	.....	1,022	3	.....	3	.....	.....	584	.....	125	584	3
.....	.....	834	3	.....	3	.....	.....	556	.....	140	556	4
.....	.....	720	2	.....	2	.....	.....	480	.....	150	480	5
.....	.....	560	2	.....	2	.....	.....	320	.....	120	320	6
.....	.....	270	1	.....	1	.....	.....	180	.....	150	180	7
.....	.....	240	1	.....	1	.....	.....	160	.....	100	160	8
.....	.....	168	2	.....	2	.....	.....	96	.....	30	96	9
.....	.....	\$10,054	23	.....	23	.....	.....	6,036	.....	146	6,036	
5	18,895	\$754,270	711	247	958	396,068	30,718	24,940	24,513	.....	476,239	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.75; from April 1, 1904 to July 1, 1904, \$0.79. Average price for year \$0.8125 per ton.  
Average price paid for hand mining, local mines, \$0.99 per ton.

*Mercer County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Eggs.	Net.
SHIPPING MINES.							
1	Empire Coal Co., No. 3.....	Gilchrist .....	191,900	10,378	115,910	.....	2.38
2	Coal Valley Mining Co., No. 2.....	Sherrard .....	151,203	1,868	101,226	.....	2.63
3	Alden Coal Co., No. 2.....	Wanlock .....	110,554	12,034	61,507	.....	3.90
4	Coal Valley Mining Co., No. 1.....	Cable .....	70,853	316	47,548	.....	2.93
5	Alden Coal Co., No. 4.....	Wanlock .....	44,600	.....	26,079	.....	.....
6	Alfred Lilliman .....	Cable .....	6,320	.....	5,820	.....	.....
7	Arthur Jones .....	Boden .....	4,800	.....	4,800	.....	.....
8	B. B. Peterson .....	Cable .....	4,000	.....	4,000	.....	.....
Totals .....			584,230	24,596	366,890	.....	12.13
LOCAL MINES.							
1	Docherty Bros.....	Boden .....	4,100	.....	4,000	.....	.....
2	G. W. Martin .....	Laoc .....	3,040	.....	2,800	.....	.....
3	Wm. J. Penman .....	Boden .....	3,000	.....	3,000	.....	.....
4	Alfred Williams .....	Boden .....	1,800	.....	1,800	.....	.....
5	J. B. Martin .....	Laoc .....	1,600	.....	1,600	.....	.....
6	S. J. Young .....	Griffin .....	1,600	.....	1,600	.....	.....
7	W. P. Williams .....	Laoc .....	1,400	.....	1,400	.....	.....
8	M. A. Beers .....	Cable .....	738	.....	738	.....	.....
Totals .....			17,278	.....	16,938	.....	.....
Totals—16 mines .....			601,508	24,596	383,828	.....	12.13

Mines in 1903, 16  
 New mines, 2.  
 Abandoned mines, 2.  
 Mines in 1904, 16.

*Mercer County—Second District—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	3,104	\$243,674	180	93	273	185,835	.....	2,565	3,500	240	191,900	1
	44,903	230,900	115	114	229	141,775	62	3,175	6,192	241	151,203	2
	5,475	139,865	94	57	151	102,062	841	2,176	3,475	255	110,554	3
	14,080	110,127	52	42	94	67,865	230	.....	2,755	232	70,853	4
	1,920	54,478	76	38	114	42,680	.....	.....	1,920	167	44,600	5
	.....	10,485	10	3	13	4,800	.....	1,170	350	200	6,320	6
	.....	7,200	7	3	10	700	.....	3,900	200	240	4,800	7
	.....	5,400	6	2	8	3,480	.....	320	200	240	4,000	8
	69,432	\$802,129	540	352	892	549,196	1,133	13,306	20,595	227	584,290	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
	.....	\$6,075	9	3	12	.....	.....	4,030	70	200	4,100	1
	.....	4,320	5	2	7	.....	.....	3,040	.....	180	3,040	2
	.....	5,250	4	1	5	.....	.....	2,900	100	140	3,000	3
	.....	2,700	4	1	5	.....	.....	1,800	.....	220	1,800	4
	.....	2,400	5	1	6	.....	.....	1,600	.....	175	1,600	5
	.....	3,200	5	1	6	.....	.....	1,600	.....	270	1,600	6
	.....	2,100	4	1	5	.....	.....	1,400	.....	170	1,400	7
	.....	1,226	4	.....	4	.....	.....	738	.....	140	738	9
	.....	\$27,271	40	10	50	.....	.....	17,108	170	199	17,278	
	69,432	\$829,400	580	362	942	549,196	1,133	30,414	20,765	.....	601,508	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.63. Average price for the year, \$0.6525 per ton. Average price paid for hand mining, local mines, for year, \$0.902 per ton.

*Rock Island County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Silvis Mining Co., No. 2.....	Carbon Cliff..	23,936		15,325		
2	Volunteer Coal Co.....	Coal Valley...	2,532		2,232		
3	Moore & Mahlstrom.....	Coal Valley...	2,270		1,870		
Totals.....			28,738		19,427		
LOCAL MINES.							
1	J. J. Pryce & Son.....	Coal Valley...	30,090		22,293		
2	Sackville Bros.....	Coal Valley...	18,800	120	12,685		
3	John Hynd & Sons.....	Moline .....	9,270		8,240		
4	Loding Bros.....	Moline .....	2,255		1,804		
5	Stone Bros.....	Carbon Cliff..	800		800		
6	Guckert Bros.....	Hampton .....	524		524		
7	Fred Vonach.....	Carbon Cliff..	400		400		
8	Porterville Coal Co.....	Moline .....	260		200		
9	D. L. Edwards.....	Coal Valley...	240		240		
10	Grothe Bros.....	Moline .....	216		216		
11	Wm. Wooley.....	Coal Valley...	200		200		
Totals .....			63,055	120	47,602		
Totals—14 mines.....			91,793	120	67,029		

Mines in 1993, 17.  
 New mines, 2.  
 Abandoned mines, 5.  
 Mines in 1904, 14.

*Rock Island County—Second District—Continued.*

Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$32,846	31	11	42	22,761	.....	300	875	268	23,936	1
.....	4,354	6	3	9	1,786	.....	546	200	200	2,532	2
.....	3,790	4	2	6	680	.....	1,384	206	178	2,270	3
.....	\$40,990	41	16	57	25,227	.....	2,230	1,281	215	28,738	
.....											
.....	\$47,705	20	10	30	.....	.....	29,740	350	280	30,090	1
.....	26,979	20	7	27	.....	.....	18,685	115	200	18,800	2
.....	16,995	15	6	21	.....	.....	8,970	300	210	9,270	3
.....	3,834	5	1	6	.....	.....	2,075	180	200	2,255	4
.....	1,600	2	1	3	.....	.....	800	.....	175	800	5
.....	917	3	.....	3	.....	.....	524	.....	91	524	6
.....	800	2	.....	2	.....	.....	400	.....	125	400	7
.....	430	4	1	5	.....	.....	200	60	50	260	8
.....	480	2	.....	2	.....	.....	240	.....	180	240	9
.....	432	2	.....	2	.....	.....	216	.....	70	216	10
.....	400	1	.....	1	.....	.....	200	.....	120	200	11
.....	\$100,572	76	26	102	.....	.....	62,050	1,005	186	63,055	
.....	\$141,562	117	42	159	25,227	.....	64,280	2,286	.....	91,793	

NOTE.—Average price paid for hand mining shipping mines for the year, \$0.663 per ton; price paid for hand mining local mines, \$0.673 per ton.



*Stark County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Wyoming Coal Co., No. 1.....	Wyoming .....	29,658	8,420	13,238	.....	2,000
2	Watson & Higbie .....	Wyoming .....	8,658	3,066	4,000	.....	.....
Totals.....			38,316	11,486	7,238	.....	2,000
LOCAL MINES.							
1	S. French .....	Bradford.....	3,080	.....	2,280	.....	.....
2	W. B. Ballentine.....	Toulon.....	2,840	.....	2,400	.....	.....
3	J. M. Robinson .....	Elmira .....	2,800	.....	2,440	.....	.....
4	John Scott.....	Wyoming .....	2,280	.....	2,240	.....	.....
5	Jesse Savill.....	Wyoming .....	1,904	.....	1,904	.....	.....
6	Ben Smith.....	Wyoming .....	1,880	.....	1,880	.....	.....
7	John Catton.....	West Jersey ..	1,772	.....	1,772	.....	.....
8	B. F. Newton .....	Bradford .....	1,636	.....	1,456	.....	.....
9	James Higbie.....	Wyoming .....	1,536	.....	1,280	.....	.....
10	Isaac King .....	Wyoming .....	920	.....	920	.....	.....
11	James K. Fuller.....	Wyoming .....	880	.....	880	.....	.....
12	Cahill & Code.....	Lombardville..	840	.....	840	.....	.....
13	John Thurston.....	Wyoming .....	240	.....	240	.....	.....
14	Bever Bros.....	Wyoming .....	136	.....	136	.....	.....
Totals.....			22,724	.....	20,648	.....	.....
Totals—16 mines.....			61,040	11,486	37,886	.....	2,000

Mines in 1903—22.  
 Abandoned mines—6.  
 Mines in 1904—16.

*Stark County—Second District—Concluded.*

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$37,212	40	7	47	27,000	.....	2,000	658	240	29,658	1
.....	11,029	15	5	20	5,300	.....	3,066	292	200	8,658	2
.....	\$48,241	55	12	67	32,300	.....	5,066	950	220	38,316	
.....											
.....	\$5,320	6	1	7	.....	.....	3,060	.....	200	3,060	1
.....	4,420	6	1	7	.....	.....	2,840	.....	250	2,840	2
.....	5,240	6	1	7	.....	.....	2,600	200	280	2,800	3
.....	3,940	5	1	6	.....	.....	2,220	60	240	2,280	4
.....	3,332	4	.....	4	.....	.....	1,904	.....	200	1,904	5
.....	3,290	6	.....	6	.....	.....	1,880	.....	150	1,880	6
.....	3,544	4	.....	4	.....	.....	1,772	.....	287	1,772	7
.....	3,092	4	1	5	.....	.....	1,636	.....	230	1,636	8
.....	2,368	6	1	7	.....	.....	1,500	36	160	1,536	9
.....	1,840	3	1	4	.....	.....	920	.....	160	920	10
.....	1,320	3	.....	3	.....	.....	880	.....	105	880	11
.....	1,890	3	1	4	.....	.....	840	.....	180	840	12
.....	420	2	1	3	.....	.....	240	.....	100	240	13
.....	272	2	1	3	.....	.....	136	.....	50	136	14
.....	\$40,288	60	10	70	.....	.....	22,428	296	196	22,724	
.....	\$88,529	115	22	137	32,300	.....	27,494	1,246	.....	61,040	

RE—Price paid for hand mining, shipping mines, \$0.75 per ton.  
Average price paid for hand mining, local mines, \$1.00 per ton.

*Warren County—Second District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Cook & Rohr .....	Gerlaw .....	6,322		6,202		
2	Gilmore & McKahan .....	Gerlaw .....	4,040		3,240		
3	Murphy & Redmond .....	Monmouth .....	1,500		1,600		
4	John Selkirk .....	Monmouth .....	944		944		
5	John Simcox .....	Gerlaw .....	800		800		
6	Thos. Caldwell .....	Avon .....	680		680		
7	Paul & Slater .....	Avon .....	600		600		
8	J. E. Lewis .....	Roseville .....	600		600		
9	Willis Clayton .....	Avon .....	448		448		
10	Tracey & Miller .....	Youngstown .....	360		360		
11	T. E. Delaney .....	Avon .....	280		280		
12	Thos. Lee .....	Youngstown .....	280		280		
13	Thos. A. Welch .....	Monmouth .....	200		200		
14	Bird Liewrance .....	Roseville .....	200		200		
15	Max Cohen .....	Monmouth .....	100		100		
Totals .....			17,454		16,534		

Mines in 1903, 19.  
 New mines, 2.  
 Abandoned mines, 6.  
 Mines in 1904, 15.

*Warren County—Second District—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
120		\$10,914	8	2	10			6,122	200	228	6,322	1
800		6,070	6	12	8			3,840	200	220	4,040	2
		4,000	6	1	7			1,600		200	1,600	3
		3,380	4	1	5			944		220	944	4
		1,400	3	1	4			800		185	800	5
		1,700	3		3			680		180	680	6
		1,500	5		5			600		200	600	7
		1,500	6	1	7			600		100	600	8
		1,120	4		4			448		150	448	9
		900	3		3			360		230	360	10
		700	4		4			280		90	280	11
		700	2		2			280		140	280	12
		400	2		2			200		200	200	13
		600	2		2			200		150	200	14
		175	2		2			100		50	100	15
920		\$34,039	60	8	68			17,054	400	185	17,454	

NOTE—Average price paid for hand mining, local mines, \$1.14 per ton.

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau .....	7	1,800,730	98,819	1,397,832	11,664	6,076	267,205	19,134	\$2,631.66
Henry .....	3	70,759	.....	50,019	.....	200	20,540	.....	97.96
Knox .....	2	43,080	13,252	21,068	.....	.....	8,760	.....	51.88
Marshall .....	3	470,203	100,047	278,610	.....	5,628	67,025	18,895	744.21
Mercer .....	8	584,230	24,596	366,890	.....	12,102	111,210	69,432	802.12
Rock Island .....	3	28,738	.....	19,427	.....	.....	9,311	.....	40.99
Stark .....	2	38,316	11,486	17,238	.....	2,000	7,592	.....	48.24
Totals and averages	28	3,036,056	248,200	2,151,084	11,664	26,004	491,643	107,461	\$4,417.10

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau .....	16	31,847	.....	30,391	.....	.....	1,456	.....	\$ 54.95
Henry .....	26	81,123	.....	68,982	.....	1,860	10,286	.....	149.97
Knox .....	44	46,912	.....	44,404	.....	312	2,196	.....	82.59
Marshall .....	9	6,036	.....	6,036	.....	.....	.....	.....	10.64
Mercer .....	8	17,278	.....	16,938	.....	.....	340	.....	27.21
Rock Island .....	11	63,055	120	47,602	.....	.....	15,333	.....	100.32
Stark .....	14	22,724	.....	20,648	.....	.....	2,076	.....	40.26
Warren .....	15	17,454	.....	16,534	.....	.....	920	.....	34.09
Totals and averages	143	286,434	120	251,535	.....	2,172	32,607	.....	\$498.67
Totals, district—all mines.....	171	3,322,490	248,320	2,402,619	11,664	28,176	524,250	107,461	\$4,916.56

*nd District—1904—Shipping Mines.*

EMPLOYES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
1,179	4,329	1,669,526	19,634	39,162	72,408	254		1,800,730	.....	\$0.812	.....	48	7
28	142	57,537	.....	11,022	2,200	215		70,759	.....	0.756	.....	4	2
17	86	38,164	876	3,040	1,000	207		43,080	.....	0.642	.....	3	1
247	935	396,068	30,718	18,904	24,513	247		470,203	.....	0.812	.....	19	3
352	892	549,196	1,133	13,306	20,595	227		584,230	.....	0.652	.....	27	7
16	57	25,227	.....	2,230	1,281	215		28,738	.....	0.663	.....	4	1
12	67	32,300	.....	5,066	950	220		38,316	.....	0.75	.....	2	2
1,851	6,508	2,768,018	52,361	92,730	122,947	231		3,036,056	.....	\$0.776	.....	107	23

*nd District—1904—Local Mines.*

EMPLOYES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
21	108	.....	.....	31,372	475	183		31,847	.....	\$0.927	.....	4	.....
35	223	.....	.....	78,228	2,900	185		81,128	.....	1.05	.....	11	4
28	210	.....	.....	45,602	1,310	163		46,912	.....	1.056	.....	7	1
.....	23	.....	.....	6,036	.....	146		6,036	.....	0.99	.....	1	.....
10	50	.....	.....	17,108	170	199		17,278	.....	0.902	.....	6	.....
26	102	.....	.....	62,050	1,005	186		63,055	.....	0.673	.....	.....	3
10	70	.....	.....	22,428	296	196		22,724	.....	1.00	.....	4	.....
8	68	.....	.....	17,054	400	185		17,454	.....	1.14	.....	2	.....
138	854	.....	.....	279,878	6,556	178		286,434	.....	\$0.946	.....	35	8
1,989	7,362	2,768,018	52,361	372,608	129,503	.....		3,322,490	.....	.....	.....	142	31

Whole number of mines reported in 1903—181.

Number of new mines opened during the year—23.

Number of mines abandoned during the year—33.

Whole number of mines reported for 1904—171.

## THIRD INSPECTION DISTRICT—1904.

### TWENTY-FIRST ANNUAL REPORT.

Counties—Cass, Fulton, Hancock, McDonough, Menard, Peoria, Sch  
Tazewell.

JAMES TAYLOR, *Inspector*, Peoria.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—I have the honor to submit the twenty-first annual report of mines located in the third inspection district. The coal producing counties of which are Cass, Fulton, Hancock, McDonough, Menard, Peoria, Sch and Tazewell.

The tabular part of the report gives the number of tons of coal mine number of kegs of powder consumed; the number of boys over 14 years working in the mines, also the number of miners and other employees number of shipping and local mines; the aggregate value of the total product at the mines; the thickness of the coal seams, with the geological nature and the depth of the seams below the surface; the number of casualties and non-fatal; the number of mines, old, new and abandoned; the total of the different grades of coal produced and the number of days of operation of each mine during the year.

The total number of mines reported this year is 238, of which 55 are shipping mines and 183 are local mines. The shipping mines are increased five, being four in Fulton county and one in McDonough.

The following summary shows the prominent features to be found in report:

Number of counties.....	1
Total number of mines.....	238
Number of shipping mines.....	55
Number of local mines.....	183
Total number employes.....	10,000
Number of miners.....	8,000
Number of other employes, underground, including boys.....	2,000
Number employed above ground.....	1,000
Number of kegs of powder used.....	100,000
Number of fans in the district.....	100
Total tons of coal produced.....	3,000,000
Tons of mine run.....	1,500,000
Tons of lump.....	1,000,000
Tons of egg.....	500,000
Tons of nut.....	500,000
Tons of pea or screenings.....	500,000
Tons of slack or waste.....	500,000
Tons of coal shipped.....	2,500,000
Tons sold to local trade.....	500,000
Tons supplied to locomotives.....	500,000
Tons consumed at the mines.....	500,000
Aggregate value of the total product.....	\$3,000,000
Average value per ton of all grades.....	\$3.00
Average number of days of active operation, shipping mines.....	100

average price paid per ton for hand mining, mine run .....	\$0.6067
number of fatal accidents .....	16
number of non-fatal accidents .....	9
number of employes to each fatal accident .....	301
number of employes to each non-fatal accident .....	534
number of tons of coal to each fatal accident .....	191,151
number of tons of coal to each non-fatal accident .....	338,824

A comparative table is presented of the product of each county in the district with the loss or gain for the years 1903 and 1904:

COUNTY.	TOTAL PRODUCT OF ALL GRADES OF COAL—TONS.		Increase.	Decrease.
	1903.	1904.		
.....	2,807	2,780	.....	27
Don.	1,036,496	1,284,279	247,783	.....
Cock	11,340	12,270	930	.....
Donough	43,394	60,574	17,180	.....
ard	492,328	543,763	51,435	.....
ia	920,716	939,737	19,021	.....
tyler	13,734	18,400	2,666	.....
ewell	185,535	196,611	11,076	.....
Totals	2,708,350	3,058,414	350,064	27

Net increase.....350,064 tons.

All the counties in the district show an increase in tonnage over last year except Cass, which shows a very small decrease. The net increase for the district being 350,064 tons. The shipping mines have increased from 50 last year to 55 this year, and 387,376 more tons were shipped this year than last.

#### INSTALLATION OF ELECTRIC HAULAGE PLANTS.

The following coal companies have installed electric plants during the past year: Athens Mining Co., Athens; Howarth & Taylor, Edwards; Big Creek Coal Co., St. David; Newsam Bros., Farmington; Clark Coal & Coke Co., Morris.

The plant of the Clark Coal & Coke Co. was installed by the Goodman Mfg. Co. and consists of a 16x16 automatic McEwen engine 175 H. P., 250 revolutions per minute, directly connected to a 100 K. W. Goodman multipolar generator, voltage 250; a single marble switch board with 300 volt voltmeter, 100 ampers ammeter, 400 I. T. E. circuit breaker, 400 ampere switch; and suitable station equipment makes this plant complete.

The haulage equipment consists of two six ton single motor locomotives, of 600 volts, and 36 inches gauge. These locomotives are equipped for double end control. This type of locomotive is provided with a single motor, the nature lies lengthwise of the frame, and is geared to both axles, thus making every wheel a driver and utilizing the entire weight of the machine for traction purposes. The use of one motor insures that both axles shall revolve the same speed, which is indispensable for the best tractive results and is quite impossible where two motors are used.

The plant of the Athens Coal Mining Co. consists of a 17x16 automatic McEwen engine, 190 H. P. at 250 revolutions, directly connected to a 125 K. W. Goodman multipolar generator, 250 volts, with a single marble switchboard correspondingly equipped to that furnished for the Clark Coal & Coke Co. In the exception of the units being of 25 per cent greater capacity, in the case of this plant. The plants of the two mines are of the same type.



The haulage equipment consists of a ten-ton single motor locomotive, the same type as those installed at the Clark Co.'s mine. The gauge of track in the mine is 34 inches and the amount of haulage circuit is 4,000 feet. The company furnishes its own boiler plant.

The plant of the Big Creek Co. consist of a 17x16 automatic McEwen engine, capacity 150 H. P., belt connected to 125 K. W. Goodman multipolar generator 250 volts, with a single marble switchboard. The haulage equipment of this mine consists of one five-ton Goodman gathering motor.

The plant of Newsam Bros. Coal Co. consists of a 16x28 single engine, capacity 160 H. P., belt connection to 100 K. W. Goodman multipolar generator, 200 volts. The haulage equipment consists of one six-ton Goodman motor. The belt wheel on the engine shaft is 14.5 feet in diameter, and the belt wheel on the generator is two feet.

The electric plant of the Howarth & Taylor Coal Co., at Edwards, consists of a 60 H. P. automatic McEwen engine, a 42 K. W. Goodman multipolar, a 250 volt generator, a skeleton switchboard, a 300 volt voltmeter, a 200 ampere ammeter, an automatic circuit breaker, a 200 ampere, D. P. S. T. switch and four lighting arrestors. The haulage locomotive is a Jeffrey electric motor of the D. M. 26 type, gauge 34 inches, five tons and of 250 volts. The trolley wire is 4,726 feet long.

#### SPECIFICATIONS.

For the guidance of those contemplating the installing of electric generators and motors at coal mines, the following specifications are suggested:

The generator to be of normal rated capacity ..... K. W. with a no load voltage of ..... volts and compound wound for ten per cent rise in voltage. The rated speed to be ..... R. P. M.

Conditions of Rating—The dynamo to be capable of carrying its full load of ..... amperes and ..... volts for a continuous period of ten hours, without sparking or heating any part of it more than ..... degrees centigrade above the surrounding air.

To be capable of carrying a 50 per cent overload for one hour, without injury when already heated by its normal load, and without heating its windings more than 55 degrees centigrade, also to be capable of taking 100 per cent overload momentarily without injury.

The design and proportions of the field, and armature coils and windings, to be such as to secure a fixed line of commutation for the brushes, so that the load may be varied at any desired rate, from no load to 25 per cent overload, without calling for any change in lead of the brushes, and without causing objectionable sparking. The machine is also run without injurious sparking up to 50 per cent overload.

Efficiency—The efficiency of the dynamo to be 90 per cent at full load and 82 per cent at half load. Loss due to belt is included for belted generators.

Frame—The field magnet to consist of a circular yoke in two symmetrical halves joined horizontally on a plane, passing through the center of the shaft. The frame shall be of cast iron, and there shall be ..... poles of laminated wrought iron or soft steel joined by being bedded into its castings.

Magnet Winding—The series and shunt to be wound in distinct coils, each adequately insulated and protected so as to make them practically moisture proof. The series to be wound of flat copper bar bent to the proper form. The shunt coils to be wound of double cotton covered wire, and the two coils to be so supported as to allow ample ventilation between and around them.

Armature—The armature to be slotted or iron clad type. It is to be built up of discs of sheet steel of the highest magnetic quality, each disc to be insulated from the next by a thin layer of insulating material. The armature conductors to be of flat copper so bent to form the coils that there shall be no soldered or other joint except at their junction to the commutator. These conductors shall be insulated by an armor of micamite, tape, and other insulating material, and held in place by wooden strips driven into grooves provided in core teeth for the purpose.

Commutator—The commutator to be mounted on a hub, keyed to the armature shaft. The length of the commutator bars to be such as to allow ample

space for the brush surface. The insulation between these bars to be of the best mica, suitable for the purpose, and of such hardness as to wear down equally with the copper. Excepting between the bars, all other insulation between copper segments and grounded part of commutator to be mica 3-32 inches in thickness.

**Brushes**—The brushes to be of carbon. The current density per square inch of brush, in contact with the commutator face, not to exceed 30 ampere at full load. The brush holders to be arranged to allow maximum freedom of access to the commutator, also to allow sufficient contact of the brush with the holder, and to leave the brush perfect freedom to follow up any unevenness in the commutator.

**Electrical Features**—The winding of fields and armature to be free from all electrical defects. The machine to be capable of withstanding a breakdown test of 2,000 volts alternating current. All current carrying parts to be arranged so as to have ample ventilation.

**Mechanical Features**—The design of construction to be strictly first-class in every respect. The mechanical construction of the commutator to be such that the segments shall be firmly held in position against all disturbing effects due to normal operation.

The workmanship to be in general of the highest class. All parts to be accurately made to standard gauge. All joints to be dressed and finished so as to present a neat appearance. The nuts and heads of bolts to be hexagonal and to be suitably finished where exposed.

#### POWDER BLASTING.

Many of our accidents are clearly due to ignorance on the part of some miners, who seem only to know that powder placed in a hole and tamped will produce an explosion that will break the coal. They are entirely ignorant of the expansive force of powder, of the resistance of a solid body of coal, and in fact of the simplest principles of mining. Instead of being miners they are nothing more than unskilled laborers, and many of our disasters are a convincing proof of the claim so frequently made, that the successful and intelligent miner is a skilled mechanic. It is unfortunate that such unskilled labor is gaining a footing in the coal mines of our State, but the fact that this is so is before us, and a remedy is needed. What this remedy shall be is hard to say, but it seems remarkable that the principle applied in other industries ought to be at least tried in the mines, and this principle is, to make every man that desires a place as a miner show that he has served an apprenticeship and has learned his trade.

Experience is fully demonstrating that neither life nor property is safe when in the keeping of densely ignorant and inexperienced men. The cause of explosions of all kinds should receive greater attention and consideration, for the reason that no matter how intelligent, careful or circumspect a man, or number of men, may be who work in a mine, they are always liable to be the victims of some foolish or overt act that would cost them their lives, and, as the strength of the weakest link in a chain measures the strength of the whole chain, so their safety is measured by the probable misconduct of some ignorant or vicious person who cannot realize the awful consequences of his misbehavior.

A blown out shot is one in which the powder blows out the tamping in the drill hole, and does not throw the coal. In such cases the rush of gases into the air will be greatest and more concentrated. The energy of the powder expends itself in moving the tamping in the drill hole and the air outside of it. These shots are capable of causing an explosion on a large scale, and of carrying a flame to distant points in the mine, frequently burning men who have retired to places where they considered themselves entirely safe from any possible effects of a shot.

There is the force due to the expansion of the gases and again there is the force due to the contraction. Lack of room for the rapid expansion and dissipation of heat produced, by the firing of a tight or windy shot, causes an explosion.

How many of our miners can verify the statement by saying they have quite a number of times, when returning to the working face, after firing a shot,

applied their naked light to the smoke as it was issuing out from the coal, or between the coal and roof, from a shot that had failed to throw the coal, the result being a flash or a small explosion.

To make mines safe and profitable, we must encourage the men working in them to obtain such instructions as will brighten and elevate them and fit them to be our protectors.

The practice followed in this district, in getting the coal, is that of blasting off the solid, that is, drilling the blast holes horizontally into the face of the solid coal, charging them heavily with powder and tamping with fine dust or clay. The evils resulting from this system of getting the coal are many and great, and there is nothing to recommend it. The excessively heavy shots, employed with this system of blasting coal, are productive of a large proportion of the powder being consumed in the atmosphere of the mines, thus endangering the lives of the men and the property of the company.

In 1895 blasting powder was altogether excluded from the coal mines of Germany because the Prussian commissioners had shown that it was highly dangerous and should therefore be no longer used in coal mines. The only favorable word that can be said of blasting powder is that it is cheap.

Powder is composed of saltpeter, charcoal and sulphur. A spark of fire changes the powder into a powerful agent. In an instant the gaseous elements in powder expand 300 times their original size, and changes a grain of powder to a volume of carbonic oxide. The chemical union of the oxygen of the saltpeter with the carbon atoms of the charcoal can take place only on the surface of charcoal grains, the first layer must be consumed before the second can be reached, and so on. It is owing to this fact that common powder is better for blasting coal than dynamite. The two sets of atoms in dynamite are not in different grains, but in one and the same molecule, and the combustion of this molecule is practically instantaneous and expands in volume 900 times. The explosion of blasting powder produces, not only a great amount of flame, but of the gases resulting from such explosion, about 49 per cent are combustible and explosive. The most disastrous explosions, caused by windy or blown out shots in our mines, have occurred when the ventilation was of superior character. This is natural as the oxygen in the good ventilating current aids in the quick ignition and combustion of the carbonic oxide gas given off by the incomplete combustion of the powder. The production of carbonic oxide, (CO) in the mines, is very injurious to health, one-half per cent in the air being fatal to life. In a well tamped shot, if the walls of coal resist rupture long enough for the complete combustion, we should obtain by the expansion a cooling. In a shot which has been drilled "dead" or on the "solid" the coal does not yield at all and the effects of the explosion are lost, or else the coal yields before the combustion is complete, so that the burning powder is thrown into the atmosphere of the mine. The products of the incomplete combustion of powder attains a temperature of several thousands of degrees.

#### FATAL ACCIDENTS.

July 9, 1903, Charles Bishop, miner, aged 42 years, married, was killed in Vickery Bros. mine, Kickapoo. Peoria county, by falling roof at the working face of his room. The room in which he worked was securely propped to a few feet of the face, where there was a slip extending across the room; while slatting a shot he liberated that portion of the roof containing the slip, which fell with the result as stated. He leaves a widow and eight children.

July 15, 1903, Harry Mills, Sr., miner, aged 62 years, widower, was killed at the Ubben Coal Co's mine, Pekin, Tazewell county. Deceased was returning to his room to fire a second shot; at the same time Wm. Houtts fired a shot in a cross-cut, in the adjoining room, which blowed through the pillar just as Mills was opposite the shot. His neck, arms and legs were broken. He leaves two orphan children.

Aug. 21, 1903, Alfred Stockton, miner, aged 32 years, married, was killed at the Higbee Coal Co's mine, located at Princeville, Peoria county. Deceased fired a shot which ignited two kegs of blasting powder. The deceased, who

was responsible for the accident, died after lingering in agony for over 24 hours. He was working in a room next to his brother William; After he had fired the shot he noticed that his keg of powder had not been put in the powder box, and before he had time to reach the keg, the shot in his room exploded. It proved to be a windy shot, which overturned the keg, spilling the powder on the roadway. The flame from the shot fired his keg of powder, which in turn overturned his brother William's box, containing a keg of powder, that had been opened, firing it also. William Stockton was very badly burned, but is expected to recover. Since writing the above he is again working in the mine. Deceased leaves a widow and three children.

Oct. 31, 1903, Frank Rutledge, driver, aged 43 years, single, was killed in the mine of the Norris Coal Co., Norris, Fulton county. He was pulling empty cars into the mine; the cars jumped the track, knocking out the timbers on the entry, the roof falling on him, killing him instantly.

Oct. 31, 1903, three men were killed in an accident in the Newsam Co. mine at Farmington, Fulton county, Myron McKann, Ernest Anderson and Jack Williams. The men were riding in a pit-car drawn by a mule. In making a turn near a switch the car jumped the track and ran into the side of the entry, knocking down a prop, thus letting down a portion of the roof on the men. McKann and Anderson were instantly killed and Williams died a half hour later. McKann leaves a widow and five children; Williams a widow and two children; Anderson was a single man.

December 3, 1903, Henry Donna, miner, aged 42 years, single, working in the mine of the Norris Coal Co., Norris, Fulton county, was killed while going back to a shot that he was doubtful about having exploded; when within a few feet of the face of the room the blast exploded killing him instantly.

December 21, 1903, Henry Wolden, driver, aged 22 years, single, was killed at the star mine of Newsam Bros., Peoria, Peoria county. He was run over by a loaded pit car.

January 8, 1904, John Frew, miner, aged 26 years, single, employed at the mine of the Greenview Coal Co., Greenview, Menard county, was killed while passing over the electric motor. He had finished his day's work and was on his way to the bottom of the shaft, and stopped for a while on the main entry parting until the motor had finished switching; by some means unknown his neck came in contact with the live wire and the shock killed him. The statement that electric generators having only 250 voltage will not kill is disproved by this fatal accident, which took place one and quarter miles from the generator, showing that at that distance where the voltage would be less than 250; the shock proved fatal.

January 16, 1904, F. A. Street, firer, aged 29 years, married, employed at the mine of Clark Coal & Coke Co., located at Limestone, Peoria county. He, with his brother, S. Street, were firing a shot in number 11 room off of the sixth east entry. In this room they had fired three shots, two with sulphur and one with gas squibs; two of the shots exploded, and thinking that the third had also exploded they went back, about the time they got within ten feet of the shot it exploded, killing F. A. Street, and injuring his brother. Deceased leaves a widow and three children.

February 10, 1904, Elmer Graham, loader, aged 21 years, single, was killed by falling roof, while drawing pillars in the mine of the Treasure Coal Co., Bartonville, Peoria county.

February 16, 1904, William Loveland, driver, aged 23 years, single, employed at the mine of Spoon River Coal Co., Ellisville, Fulton county, was killed 100 feet from bottom of the main shaft, on the main north entry, where there is a curtain hung across the entry. He had made one two-car trip and went back to make another, but did not have time to get two cars, so started to the bottom with one; throwing the coal back from the front end of car that he could have a seat and passing under the curtain, which is held up by a 2x8 inch board, he struck his forehead against the board, throwing him backward on the coal on top of the car, crushing his skull.

February 20, 1904, George T. Tjarks, miner, aged 54 years, widower, was killed by falling roof from a slip at the face of the entry in the mine, operated by Reentz & Sons, Kramm station, Peoria county.

February 24, 1904, Frank Morphew, driver, aged 27 years, widower, was killed at the Monmouth Coal Co.'s mine, Brereton, Fulton county. He was

driving a mule on the main south entry, when he fell and caught his foot under the car which broke his back in three places. He died two and a half hours afterwards. He leaves an orphan child.

March 22, 1904, T. G. Kelley, miner, aged 40 years, married, was killed at the East Peoria Coal Co.'s mine, located at East Peoria, Tazewell county. Kelley had prepared two shots in his room, one of which had exploded but the other hung fire; after waiting a short time, he asked another miner, Doering, to go into the room with him to light the shot; as they entered the room they observed the burning fuse, Kelley ran to seize it with the intention of pulling it out, just at that moment the shot exploded, killing Kelley and burning Doering. Deceased leaves a widow and three children.

The tables of fatal and non-fatal accidents, also the county tables of the output of coal of the district follow.

Respectfully submitted,

JAMES TAYLOR,

*State Inspector of Mines, Third District, Peoria.*

*Fatal Casualties—Third District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Widows.	Children.	Single.	No. persons dependent.	Cause of accident.
July 1903	9 Charles Bishop.....	42	Miner .....	Kickapoo ..	1	1	8		9	Falling roof.....
Aug. 15	Harry Mills, Sr.....	62	Miner .....	Pekin .....	1		3		2	Shot explosion.....
Oct. 21	Alfred Stockton.....	32	Miner .....	Princeville ..	1	1	3		4	Powder explosion.....
31	Frank Rutledge.....	43	Driver .....	Norris.....				1		Falling roof .....
31	Myron McKann.....	35	Miner .....	Farmington..	1	1	5		6	Falling roof .....
31	Ernest Anderson.....	21	Miner .....	Farmington..				1		Falling roof .....
31	Jack Williams.....	30	Miner .....	Farmington..	1	1	2		3	Falling roof .....
Dec. 3	Henry Donna.....	42	Miner .....	Norris.....						Premature blast .....
21	Henry Wolden.....	32	Driver .....	Peoria.....				1		Coal car .....
Jan. 1904	8 John Frew.....	26	Miner .....	Greenview ..				1		Electrocuted .....
Feb. 16	F. A. Street.....	29	Shot firer ..	Peoria.....	1	1	3		4	Premature blast .....
10	Elmer Graham.....	21	Loader .....	Peoria.....				1		Falling roof .....
16	William Loveland.....	23	Driver .....	Ellisville ..				1		Crushed between roof and car .....
20	George T. Tjarks.....	54	Miner .....	Kramm Sta..	1		6			Falling roof .....
24	Frank Morphey.....	27	Driver .....	Brereton.....	1		1		1	Falling under car.....
Mar. 22	T. G. Kelley.....	40	Miner .....	Peoria.....	1	1	3		4	Premature blast.....
	Total 16.....				9	6	33	7	33	

*Recapitulation of Fatal Casualties—Third District—1904.*

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Brereton .....	1	Drivers .....	4	Electrocuted .....	1	Clark Coal Co .....	1
Ellisville .....	1	Loader .....	1	Falling roof .....	7	East Peoria Coal Co ..	1
Farmington ..	3	Shot firer .....	1	Pit car .....	3	Greenview Coal Co ..	1
Greenview ..	1	Miners .....	10	Powder explosion ..	1	Higbee Coal Co.....	1
Kickapoo.....	1			Premature blast ..	3	Monmouth Coal Co....	1
Kramm Stat'n	1			Shot explosion .....	1	Newsam Coal Co .....	4
Norris.....	2					Norris Coal Co .....	2
Pekin.....	1					Reents Bros .....	1
Peoria.....	4					Spoon River Coal Co ..	1
Princeville ..	1					Treasure Coal Co.....	1
						Ubben Coal Co.....	1
						Vickery Bros .....	1
Total.....	16		16		16		16

*Non-Fatal Casualties—Third District—July 1, 1904.*

Date.	NAME.	Age.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character and cause of accident.
1903								
Aug. 21	William Stockton....	29	Princeville....	1	...	1	1	Body burned, powder expln.
Oct. 31	William Bowen.....	40	Farmington....	1	...	1	...	Body bruised, falling roof.....
31	Teddy Bowen.....	23	Farmington....	1	...	1	...	Body bruised, falling roof.....
	Will Thurston.....	18	Farmington....	1	...	1	...	Body bruised, falling roof.....
Dec. 31	Andrew Hrneck.....	30	Wesely City....	1	...	1	...	Face cut, premature explosion.
1904								
Jan. 16	Sam Street.....	22	Peoria.....	1	...	1	...	Face burned, premature blast...
Mar. 8	Ben Mehle.....	42	Peoria.....	1	...	3	3	Leg broken, falling rock.....
Apr. 22	Peter Doering.....	45	East Peoria....	1	...	3	3	Face burned, powder explosion.
Apr. 15	Steve Picinine.....	41	Brereton.....	1	...	3	3	Face burned, powder explosion.
	Total.....			4	5	6	10	

*Recapitulation of Non-Fatal Casualties—Third District—1904.*

RESIDENCE.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Brereton.....	1	Driver.....	1	Falling roof.....	3	Clark Coal & Coke Co.	2
East Peoria....	1	Miners.....	7	Falling rock.....	1	East Peoria Coal Co.	1
Farmington....	3	Shot Firer....	1	Powder explosion..	3	Ed. Little Mine.....	1
Peoria.....	2			Premature blast....	2	Higbee Coal Co.....	1
Princeville....	1					Monmouth C. Co.....	1
Wesley City....	1					Newsam Bros.....	1
Totals.....	9		9		9		9





*Cass County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Net.
LOCAL MINES.							
1	Wm. Shore .....	Chandlerville.	1,580 .....		1,580 .....		
2	Charles Nelson.....	Chandlerville.	1,200 .....		1,200 .....		
Totals .....			2,780 .....		2,780 .....		

Mines in 1903, 2.

Mines in 1904, 2.

*Fulton County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Net.
SHIPPING MINES.							
1	Whitebreast Fuel Co. of Ill., E . . .	Dunfermline..	201,955	17,114	131,595	.....	10,272
2	Monmouth Coal Co., No. 1 .....	Brereton .....	183,051	624	58,796	57,142	16,035
3	Maplewood Coal Co., Blk. Hawk.	Peoria .....	162,749	2,895	70,574	47,797	904
4	Norris Coal Mining Co .....	Norris .....	104,761	14,259	61,807	2,682	184
5	Applegate & Lewis, West Shaft ..	Cuba .....	83,000	30,000	32,000	.....	.....
6	Central Coal Mining Co .....	St. David .....	72,120	.....	62,540	.....	6,280
7	Whitebreast Fuel Co. of Ill., C ..	Dunfermline..	70,855	40,875	20,585	.....	2,540
8	East Cuba Coal Co., East Shaft ..	Cuba .....	67,421	37,461	22,470	.....	8,767
9	Newsam Bros .....	Farmington ..	43,734	.....	28,427	.....	1,482
10	Whitebreast Fuel Co. of Ill., D ..	St. David .....	36,935	23,927	8,336	.....	.....
11	Canton Union Coal Co .....	Canton .....	35,324	35,324	.....	.....	6,280
12	Scripps Coal Co .....	Astoria .....	34,680	1,640	26,000	.....	3,140
13	Farmington Coal Co .....	Farmington ..	32,480	2,304	21,406	.....	2,400
14	W. E. Foley .....	Canton .....	31,390	.....	26,260	.....	.....
15	Spoon River Coal Co .....	Galesburg .....	16,960	2,640	12,250	.....	.....
16	Essex & Fritz .....	Galesburg .....	10,240	10,240	.....	.....	.....
17	Monarch Coal & Mining Co .....	Farmington ..	9,233	771	5,607	.....	.....
18	J. Riley .....	Breeds .....	8,985	4,495	3,090	.....	.....
19	Putnam Coal Co .....	Cuba .....	8,360	.....	6,740	.....	110
20	Essex & Fritz Coal Co .....	Galesburg .....	8,260	8,260	.....	.....	.....
Totals .....			1,222,483	232,829	598,473	107,901	58,870

*Cass County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	.....	\$2,765	4	2	6	.....	.....	1,580	.....	.....	1,580	1
.....	.....	2,100	3	1	4	.....	.....	1,200	.....	.....	1,200	2
.....	.....	\$4,865	7	3	10	.....	.....	2,780	.....	.....	2,780	

NOTE.—Average price paid for hand mining, \$1.00 per ton.

*Fulton County—Third District—Continued.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
6,188	36,776	\$247,687	151	77	228	194,244	.....	255	7,446	231	201,945	1
46,735	3,128	237,898	151	102	253	178,713	.....	1,200	3,138	256	183,051	2
40,579	.....	203,034	150	54	204	162,749	.....	.....	.....	280	162,749	3
264	25,585	144,152	85	44	129	91,161	11,400	1,000	1,200	282	104,761	4
21,000	.....	97,800	85	47	132	64,900	15,000	100	.....	280	83,000	5
2,140	1,210	.....	92	17	109	70,910	.....	.....	1,210	210	72,120	6
2,398	4,444	87,767	77	55	132	68,256	.....	342	2,257	217	70,855	7
1,490	.....	75,661	65	28	93	63,198	.....	.....	4,223	205	67,421	8
5,025	1,535	42,969	47	27	74	38,689	.....	3,500	1,535	217	43,734	9
.....	3,180	45,441	40	19	59	36,103	.....	.....	832	244	36,935	10
.....	.....	38,856	40	16	56	30,000	.....	4,524	800	271	35,324	11
.....	810	45,085	51	18	69	33,870	.....	.....	810	200	34,680	12
.....	5,630	39,305	42	19	61	26,850	.....	.....	5,630	200	32,480	13
1,210	1,520	36,791	38	11	49	29,870	.....	.....	1,520	230	31,390	14
1,450	640	25,956	20	5	25	16,320	.....	.....	640	210	16,960	15
.....	.....	12,800	6	2	8	10,240	.....	.....	.....	247	10,240	16
2,855	.....	11,928	13	9	22	6,918	.....	499	1,816	233	9,233	17
1,400	.....	9,661	10	1	11	8,720	265	.....	.....	200	8,985	18
1,260	250	12,789	10	2	12	8,110	.....	.....	250	243	8,360	19
.....	.....	10,738	11	15	26	8,280	.....	.....	.....	210	8,280	20
39,994	84,708	\$1,534,882	1,184	568	1,752	1,148,091	26,665	11,420	36,307	227	1,222,483	

*Fulton County—Third District—1904—Continued.*

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF M.			
			Total.	Mine run.	Lump.	Egg.
LOCAL MINES.						
1	Canton Coal Co .....	Canton ..	18,000	8,000	10,000	
2	Standard Coal Co .....	Canton ..	7,704	1,500	4,136	
3	Wm. Roddis .....	Ipava ..	3,520		3,520	
4	Joe McLaughlin .....	Canton ..	3,440		3,440	
5	W. E. Anderson .....	Canton ..	3,439		3,439	
6	Westerfield & Co. ....	Canton ..	3,140		3,140	
7	McBroom Bros .....	Canton ..	3,000		3,000	
8	A. M. Everly .....	Canton ..	2,100		2,100	
9	A. J. Gunnett .....	Fairview ..	2,000		2,000	
10	Stokes & Lee .....	Canton ..	2,000		2,000	
11	Yockum & Son .....	Lewistown ..	1,640		1,640	
12	Joseph Wilson .....	Astoria ..	1,240		1,240	
13	Temple Geiselman .....	Astoria ..	1,235		1,235	
14	E. P. Moran .....	St. David ..	1,000		1,000	
15	R. E. Gould & Co. ....	Fairview ..	900		900	
16	John Wagner .....	Breeds ..	800		800	
17	L. R. Snider .....	St. David ..	800		800	
18	John Martin & Son .....	Canton ..	800		800	
19	Wm. Murphy & Son .....	Canton ..	640		640	
20	Jacob Cleary .....	Fairview ..	640		640	
21	D. S. Mayall .....	Ipava ..	610		610	
22	A. Anderson .....	Fairview ..	542		542	
23	Robert Raby .....	Cuba ..	540		540	
24	Wm. Jordan .....	St. David ..	300		300	
25	L. W. Davis .....	Fairview ..	300		300	
26	T. H. Travis .....	Fairview ..	290		290	
27	Abraham Bath .....	St. David ..	280		280	
28	Little Black Diamond .....	Farmington ..	160		160	
29	Turner & Huber .....	Lewistown ..	150		150	
30	Martain & Peterson .....	Canton ..	150		150	
31	H. B. Doyle .....	Norris ..	140		140	
32	Geo. Prowl .....	Fairview ..	100		100	
33	Surprise Coal Co .....	Astoria ..	100		100	
34	W. H. James .....	Fairview ..	96		96	
Totals .....			61,796	9,500	50,228	
Totals—54 mines .....			1,284,279	242,329	648,701	107,601

Mines in 1903, 63.  
 New mines, 1.  
 Abandoned mines, 10.  
 Mines in 1904, 54.

*Fulton County—Third District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
8.		\$25,000	25	8	33			18,000		250	18,000	1
		11,556	14	6	20			7,704		230	7,704	2
		5,280	8	1	9			3,520		200	3,520	3
		5,160	6	1	7			3,440		210	3,440	4
		5,159	10	1	11			3,439		230	3,439	5
		4,710	6	1	7			3,140		200	3,140	6
		4,500	8	1	9			3,000		270	3,000	7
		3,150	3	1	4			2,100		200	2,100	8
		3,000	4	1	5			2,000		230	2,000	9
		3,000	10	1	11			2,000		210	2,000	10
		2,542	12	1	13			1,640		200	1,640	11
		2,480	4	1	5			1,240		160	1,240	12
		2,470	2	1	3			1,235		160	1,235	13
		1,500	2	1	3			1,000		180	1,000	14
		1,350	4	1	5			900		160	900	15
		1,000	2		2			800		225	800	16
		1,000	5		6			800		130	800	17
		1,000	10	1	11			800		210	800	18
		800	6	1	7			640		90	640	19
		800	3	1	4			640		130	640	20
		915	4	1	5			610		90	610	21
		677	2		2			542		250	542	22
		675	2	1	3			540		280	540	23
		375	2	1	3			300		200	300	24
		375	2		2			300		100	300	25
		363	2		2			290		90	290	26
		350	2		2			280		100	280	27
		280	3	1	4			180		80	180	28
		300	7		9			150		110	150	29
		225	3	1	4			150		120	150	30
		210	2	1	3			140		200	140	31
		125	2		2			100		60	100	32
		150	6	2	8			100		110	100	33
		144	2		2			96		90	96	34
3		\$90,621	185	41	226			61,796		189	61,796	
2	84,708	\$1,625,503	1,369	609	1,978	1,148,091	26,665	73,216	36,307		1,284,279	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.59.  
 Average price for year, \$0.6125 per ton.  
 20 tons mined by day.  
 Average price paid for hand mining, local mines, for year, \$0.728 per ton.

*Hancock County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINE.							
1	Y. & J. Meredith .....	Augusta .....	8,320 .....		8,320 .....		
LOCAL MINES.							
1	C. H. Ellis .....	Augusta .....	1,430 .....		1,430 .....		
2	Geo. Worley .....	Augusta .....	840 .....		840 .....		
3	L. Bennett.....	Augusta .....	800 .....		800 .....		
4	S. Jones.....	Augusta .....	520 .....		520 .....		
5	Geo. Willey .....	Augusta .....	360 .....		360 .....		
Totals .....			3,950 .....		3,950 .....		
Totals—6 mines .....			12,270 .....		12,270 .....		

Mines in 1903, 6.

Mines in 1904, 6.

*Hancock County—Third District—Concluded.*

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$14,560	12	2	14	8 320	.....	.....	.....	210	8,320	1
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	\$2,860	6	1	7	.....	.....	1,430	.....	210	1,430	1
.....	1,680	4	1	5	.....	.....	840	.....	230	840	2
.....	1,600	5	1	6	.....	.....	800	.....	200	800	3
.....	1,040	3	1	4	.....	.....	520	.....	210	520	3
.....	720	3	1	4	.....	.....	360	.....	112	360	5
.....	\$7,900	21	5	26	.....	.....	3,950	.....	192	3,950	.....
.....	\$22,460	33	7	40	8,320	.....	3,950	.....	.....	12,270	.....

RE.—Price paid for hand mining, shipping and local mines, \$1.25 per ton.

## McDonough County—Third District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MI			
			Total.	Mine run.	Lump.	Egg.
SHIPPING MINES.						
1	Rippetoe & Rundle .....	Colchester .....	19,727	9,729	8,108	
2	Burney & Co .....	Colchester .....	4,127		4,127	
Totals .....			23,854	9,729	12,235	
LOCAL MINES.						
1	L. E. Wilson .....	Blandinsville..	4,350		4,300	
2	John Wilson .....	Colchester .....	3,794		3,714	
3	Ralph Oldham .....	Colchester .....	2,511		2,468	
4	John Nee .....	Colchester .....	1,848		1,848	
5	Barrett & Green .....	Colchester .....	1,733		1,733	
6	Jackson M. Davis .....	Vermont .....	1,324		1,304	
7	Atkinson Bros. ....	Colchester .....	1,248		1,248	
8	Thomas Cooper .....	Colchester .....	1,068		1,048	
9	Charles Atkinson .....	Colchester .....	1,040		1,025	
10	Laron Bowman .....	Industry .....	1,004		1,004	
11	W. B. Davidson .....	Colchester .....	820		820	
12	John Berry .....	Colchester .....	800		800	
13	Geo. W. Foster .....	Colchester .....	720		720	
14	Wm. Kipling .....	Colchester .....	700		700	
15	David Mordue .....	Colchester .....	660		660	
16	William H. Robinson .....	Macomb .....	600		600	
17	Mitchell Humes .....	Colchester .....	600		600	
18	Wayland Bros .....	Colchester .....	600		600	
19	Lewis Lewis .....	Colchester .....	580		580	
20	John Pearson .....	Colchester .....	568		568	
21	John Mitchell .....	Vermont .....	559		559	
22	Eli Hillard .....	Colchester .....	552		552	
23	C. E. Waddill .....	Tennessee .....	540		540	
24	Geo. Polonus .....	Colchester .....	500		500	
25	Wm. Eddington .....	Macomb .....	480		480	
26	John Putt .....	Colchester .....	437		437	
27	Wm. Hndson .....	Colchester .....	425		425	
28	Joseph Bunt .....	Colchester .....	420		420	
29	Andrew Swanson .....	Colchester .....	380		380	
30	Clay Nudd .....	LaHarpe .....	340		340	
31	Teel & Baker .....	Macomb .....	320		320	
32	Link Witley .....	Industry .....	320		320	
33	John Betson .....	Colchester .....	312		312	
34	Jackson Gilligan .....	Industry .....	312		312	
35	John Ruder .....	Colchester .....	306		306	
36	Fred. Newneker .....	Bushnell .....	300		300	
37	Wm. Whalin .....	Colchester .....	240		240	
38	Willis Stoneking .....	Fandon .....	240		240	
39	Aaron Crone .....	Colchester .....	240		240	
40	Frank Burdick .....	Industry .....	230		230	
41	M. McClure .....	Colchester .....	212		212	
42	E. H. Carmack .....	Colchester .....	210		210	
43	Richard Laity .....	Colchester .....	200		200	
44	Anton Lokosik .....	Colchester .....	193		193	
45	J. W. Harp .....	Colchester .....	186		186	
46	John C. Kirkbride .....	Vermont .....	161		161	
47	Wm. Webster .....	Vermont .....	150		150	
48	Chas. Porter .....	Macomb .....	140		140	
49	Frank Vogler .....	Birmingham .....	120		120	
50	Wm. Hoar .....	Colchester .....	120		120	
51	Harvey Russell .....	Colchester .....	118		118	
52	D. E. Perry .....	Colchester .....	110		110	

*McDonough County—Third District—Continued.*

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	
		Average number of miners.	All other employ'gs.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.		Tons mined by hand.	Number.
.....	\$34,971	50	3	53	19,502	.....	.....	225	153	19,727	1
.....	6,190	10	4	14	4,127	.....	.....	.....	233	4,127	2
.....	41,161	60	7	67	23,629	.....	.....	225	218	23,854	.....
.....	\$9,712	3	1	4	.....	.....	4,350	.....	300	4,350	1
.....	6,060	10	.....	10	.....	.....	3,794	.....	290	3,794	2
.....	4,645	6	1	7	.....	.....	2,511	.....	218	2,511	3
.....	3,696	7	.....	7	.....	.....	1,848	.....	200	1,848	4
.....	3,033	6	.....	6	.....	.....	1,733	.....	200	1,733	5
.....	2,618	4	1	5	.....	.....	1,324	.....	120	1,324	6
.....	2,496	6	1	7	.....	.....	1,248	.....	240	1,248	7
.....	1,854	3	.....	3	.....	.....	1,068	.....	175	1,068	8
.....	2,056	5	1	6	.....	.....	1,040	.....	200	1,040	9
.....	2,008	4	.....	4	.....	.....	1,004	.....	230	1,004	10
.....	1,435	4	.....	4	.....	.....	820	.....	200	820	11
.....	1,600	3	.....	3	.....	.....	800	.....	190	800	12
.....	1,530	3	.....	3	.....	.....	720	.....	200	720	13
.....	1,400	2	.....	2	.....	.....	700	.....	250	700	14
.....	1,320	4	.....	4	.....	.....	660	.....	115	660	15
.....	1,350	8	1	9	.....	.....	600	.....	68	600	16
.....	1,050	3	.....	3	.....	.....	600	.....	200	600	17
.....	1,050	3	.....	3	.....	.....	600	.....	211	600	18
.....	1,160	4	.....	4	.....	.....	580	.....	145	580	19
.....	1,065	3	.....	3	.....	.....	568	.....	175	568	20
.....	1,118	3	.....	3	.....	.....	559	.....	176	559	21
.....	1,104	2	.....	2	.....	.....	552	.....	276	552	22
.....	1,080	2	.....	2	.....	.....	540	.....	225	540	23
.....	875	3	.....	3	.....	.....	500	.....	144	500	24
.....	960	3	1	3	.....	.....	480	.....	255	480	25
.....	765	2	.....	2	.....	.....	437	.....	200	437	26
.....	850	3	.....	3	.....	.....	428	.....	135	425	27
.....	840	3	.....	3	.....	.....	420	.....	140	420	28
.....	665	2	.....	2	.....	.....	380	.....	165	380	29
.....	850	4	1	5	.....	.....	340	.....	200	340	30
.....	640	2	.....	2	.....	.....	320	.....	240	320	31
.....	640	2	.....	2	.....	.....	320	.....	150	320	32
.....	468	1	.....	1	.....	.....	312	.....	180	312	33
.....	624	2	.....	2	.....	.....	312	.....	130	312	34
.....	612	2	.....	2	.....	.....	306	.....	120	306	35
.....	600	3	.....	3	.....	.....	300	.....	115	300	36
.....	480	2	.....	2	.....	.....	240	.....	120	240	37
.....	480	2	.....	2	.....	.....	240	.....	80	240	38
.....	440	2	.....	2	.....	.....	230	.....	130	240	39
.....	460	2	.....	2	.....	.....	230	.....	80	230	40
.....	424	2	.....	2	.....	.....	212	.....	71	212	41
.....	368	2	.....	2	.....	.....	210	.....	215	210	42
.....	400	2	.....	2	.....	.....	200	.....	145	200	43
.....	538	1	.....	1	.....	.....	193	.....	175	193	44
.....	372	2	.....	2	.....	.....	186	.....	90	186	45
.....	322	2	.....	2	.....	.....	161	.....	45	161	46
.....	262	2	.....	2	.....	.....	150	.....	80	150	47
.....	280	2	.....	2	.....	.....	140	.....	75	140	48
.....	240	1	.....	1	.....	.....	120	.....	90	120	49
.....	210	1	.....	1	.....	.....	120	.....	120	120	50
.....	236	2	.....	2	.....	.....	118	.....	100	118	51
.....	192	1	.....	1	.....	.....	110	.....	75	110	52



*McDonough County—Third District—Concluded.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES— <i>Concluded.</i>							
53	Williams & Bro. ....	Colchester .....	105		105		
54	Andrew Newneker .....	Bushnell .....	100		100		
55	Wm. Bexson .....	Colchester .....	100		100		
56	Smith Bros. ....	Colchester .....	85		85		
57	John Larson .....	Colchester .....	80		80		
58	Hanson & Hunter. ....	Industry .....	80		80		
59	James C. Teel .....	Macomb .....	75		75		
60	Jas. Goldsberry .....	Colchester .....	64		64		
61	Walter Upham .....	Colchester .....	40		40		
62	Wm. Robinson .....	Colchester .....	20		20		
Totals. ....			36,720		36,462		
Totals—64 mines .....			60,574	9,729	48,697		

Mines in 1903, 56.

New mines, 8.

Mines in 1904, 64.

*McDonough County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	.....	\$157	1	.....	1	.....	.....	105	.....	290	105	53
.....	.....	200	1	.....	1	.....	.....	100	.....	105	100	54
.....	.....	175	1	.....	1	.....	.....	100	.....	95	100	55
.....	.....	149	2	.....	2	.....	.....	85	.....	40	85	56
.....	.....	140	1	.....	1	.....	.....	80	.....	60	80	57
.....	.....	160	1	.....	1	.....	.....	80	.....	80	80	58
.....	.....	150	1	.....	1	.....	.....	75	.....	80	75	59
.....	.....	112	2	.....	2	.....	.....	64	.....	40	64	60
.....	.....	70	1	.....	1	.....	.....	40	.....	35	40	61
.....	.....	40	1	.....	1	.....	.....	20	.....	20	20	62
258	.....	\$70,686	172	10	182	.....	.....	36,720	.....	184	36,720	
2,148	.....	\$111,847	232	17	249	23,629	.....	36,720	225	.....	60,574	

NOTE.—Average price paid for hand mining, shipping mines, for year, \$1.107 per ton.  
Average price paid for hand mining, local mines, for year, \$1.346 per ton.

*Menard County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Greenview Coal Co .....	Greenview ..	145,772	.....	96,227	.....	25,343
2	Wabash Coal Co. ....	Athens.....	143,703	59,976	55,989	.....	7,849
3	Athens Mining Co .....	Athens.....	101,301	24,810	48,684	.....	5,553
4	South Mountain Coal Co .....	Petersburg ..	40,343	18,461	13,553	1,101	.....
5	Tallula Coal Co .....	Tallula.....	39,288	24,172	10,280	.....	116
6	Petersburg Coal Mining Co.....	Petersburg ..	29,135	12,397	9,273	.....	951
7	Ensley Coal Co .....	Petersburg ..	15,260	15,260	.....	.....	.....
8	Middletown Coal Co.....	Middletown ..	11,317	.....	8,530	.....	.....
Totals.....			526,099	155,076	242,536	1,101	39,812
LOCAL MINES.							
1	G. F. Johnson .....	Middletown ..	6,132	.....	6,132	.....	.....
2	Arthur Wainwright.....	Sweetwater...	3,409	.....	3,409	.....	.....
3	H. M. Levering & Co .....	Petersburg ..	2,400	.....	2,400	.....	.....
4	Peter Becker .....	Petersburg ..	1,853	.....	1,853	.....	.....
5	Loyd Coal Co .....	Loyd.....	1,680	.....	1,680	.....	.....
6	Riverside Coal Co .....	Petersburg ..	1,580	.....	1,580	.....	.....
7	Duncan Coal Co .....	Tice.....	610	.....	610	.....	.....
Totals.....			17,664	.....	17,664	.....	.....
Totals—15 mines .....			543,763	155,076	260,200	1,101	39,812

Mines in 1903, 16.  
 Abandoned mine, 1.  
 Mines in 1904, 15.

*Menard County—Third District—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	11,022	\$169,479	110	43	153	130,285	.....	4,467	11,020	250	145,772	1
	5,000	171,740	120	56	176	135,859	.....	2,844	5,000	201	143,703	2
	2,926	117,817	83	37	120	95,650	.....	2,724	2,927	221	101,301	3
	1,552	38,014	39	20	59	30,596	3,255	4,940	1,552	211	40,343	4
	1,460	44,905	45	17	62	34,083	.....	3,725	1,460	196	39,268	5
	3,262	32,184	33	18	51	27,330	.....	1,258	547	205	29,135	6
	.....	16,786	26	9	35	12,000	.....	3,260	.....	225	15,260	7
	1,255	12,962	24	24	48	8,606	.....	1,456	1,255	135	11,317	8
	26,477	\$603,887	480	224	704	474,409	3,255	24,674	23,761	206	526,099	
	.....	\$10,731	7	2	9	.....	.....	6,132	.....	231	6,132	1
	.....	5,966	6	1	7	.....	.....	3,409	.....	182	3,409	2
	.....	4,200	5	5	10	.....	.....	2,400	.....	160	2,400	3
	.....	3,706	4	1	5	.....	.....	1,853	.....	200	1,853	4
	.....	2,520	2	1	3	.....	.....	1,680	.....	210	1,680	5
	.....	2,765	4	1	5	.....	.....	1,580	.....	200	1,580	6
	.....	915	2	1	3	.....	.....	610	.....	160	610	7
	.....	\$30,803	30	12	42	.....	.....	17,664	.....	192	17,664	
	26,477	\$634,690	510	236	746	474,409	3,255	42,338	23,761	.....	543,763	

TE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, from April 1, 1904, to July 1, 1904, \$0.527.  
 erage price for year, \$0.5495 per ton.  
 erage price paid for hand mining, local mines, \$0.508 per ton.

*Peoria County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MIN.				
			Total.	Mine run.	Lump.	Egg.	Net.
SHIPPING MINES.							
1	Clark Coal & Coke Co., A .....	Peoria .....	122,230		73,340		5.1
2	Sholl Bros., No. 3.....	Peoria .....	103,049	57,500	29,854		9.3
3	Wolschlag Cooperative Co. Co.....	Peoria .....	82,376	82,376			
4	Newsam Bros.....	Peoria .....	71,136		46,238		11.2
5	Howarth & Taylor.....	Edwards .....	60,125		47,162		
6	Newsam Bros .....	Peoria .....	60,683		39,444		2.9
7	Collins Cooperative C. Co.....	Bartonville .....	54,340	51,240	2,140		
8	Vickery Bros.....	Peoria .....	38,040		35,280		2.9
9	Central Coal & Coke Co.....	Elmwood .....	34,606		29,415		
10	A. Reents Bros.....	Kramm .....	25,230		23,000		3.3
11	Newsam Bros.....	Peoria .....	25,059		16,288		
12	Newsam Bros.....	Peoria .....	24,880		16,172		4.1
13	C. B. Kramm.....	Peoria .....	20,200		15,000		1.1
14	W. E. Foley.....	Mapleton .....	17,980		13,460		
15	Jas. Walker.....	Mapleton .....	15,957	9,574	4,560		
16	Third Vein Coal Co. ....	Orchard Mine .....	13,920		11,911		
17	Peter Grant & Son .....	Peoria .....	13,630		10,640		
18	German Coal Co .....	Peoria .....	10,700	10,700			
19	Cusack & Edwards.....	Edwards .....	5,640		5,640		
Totals .....			799,821	211,390	415,544		80.1

*Peoria County—Third District—Continued.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
15,000	8,890	\$151,844	100	32	132	113,340			8,890	233	122,230	1
10,400		134,427	90	26	116	102,500		549		265	103,049	2
		98,851	44	13	57	82,378				260	82,378	3
8,800	1,871	77,894	74	27	101	67,765		1,500	1,871	221	71,136	4
10,959	2,004	67,792	57	25	82	58,121			2,004	247	60,125	5
7,300	1,802	66,448	58	30	88	56,381		2,500	1,802	207	60,683	6
	1,006	64,870	35	10	45	53,380			1,000	220	54,380	7
	600	49,952	45	10	55	35,000		2,440	600	230	38,040	8
5,191		47,237	50	22	72	30,486		2,920	1,200	280	34,606	9
2,230		31,015	32	8	40	23,600		1,630		210	25,230	10
2,820	939	27,439	27	21	48	23,520		600	939	139	25,059	11
2,514	1,218	27,244	27	17	44	22,859		800	1,221	193	24,880	12
	600	23,160	25	7	32	19,600			600	190	20,200	13
2,580	580	20,566	30	6	36	17,400			580	212	17,980	14
1,823		19,719	27	6	33	15,957				220	15,957	15
	1,289	21,433	32	14	46	11,811		1,259	850	240	13,920	16
2,100	240	15,456	20	7	27	13,390			240	220	13,630	17
		12,840	15	4	19	10,470			230	210	10,700	18
		7,332	8	3	11	5,450			190	180	5,640	19
71,717	21,033	\$963,519	796	288	1,084	763,406		14,198	22,217	220	799,821	

NOTE.—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$.62, from April 1, 1904, to July 1, 1904, \$.66, average price for year, \$.6125 per ton.

## Peoria County—Third District—Concluded.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Winters Coöperative C. Co. ....	Bartonville .....	18,260	8,060	8,200		
2	Treasure Coal Co .....	Bartonville .....	12,640	3,610	8,240		
3	Hibberd & Snedden.....	Peoria .....	10,670	2,240	6,460		
4	Ball Coal Co.....	Bartonville .....	8,010	2,120	5,640		
5	Schmich Coal Co., No. 1 .....	Peoria .....	7,240		7,240		
6	Limestone Coal Co., No. 2 .....	Peoria .....	6,820		6,820		
7	Keller & Son.....	Bartonville .....	6,780		6,780		
8	A. W. Higbee.....	Princeville .....	5,680		5,680		
9	Jefford & Bro.....	Kingston M's. ....	5,200		5,200		
10	Fair Oak Coal Co.....	Peoria .....	5,200		5,200		
11	E. Mohen & Co.....	Peoria .....	4,260		4,260		
12	Joseph Crew.....	Chillicothe .....	3,730		3,730		
13	Jasper Wimburger .....	Chillicothe .....	3,640		3,640		
14	D. P. Wright.....	Chillicothe .....	3,610		3,610		
15	White Coal Co.....	Peoria .....	3,460		3,460		
16	Martain Coal Co.....	Peoria .....	3,240		3,240		
17	Wantling & Burdett.....	Pottstown .....	2,980		2,640		
18	Smith Miller.....	Mapleton .....	2,680		2,680		
19	Lowery Coöperative Co.....	Orchard Mine .....	2,500		2,500		
20	J. Dempster.....	Peoria .....	2,400		2,400		
21	Fisher & Block.....	Peoria .....	1,800		1,800		
22	Fisher Bros.....	Brimfield .....	1,600		1,600		
23	Tully & Heaton.....	Brimfield .....	1,580		1,580		
24	R. Taylor & Son.....	Princeville .....	1,520		1,520		
25	W. Berry.....	Monica .....	1,260		1,260		
26	Fash & Co.....	Peoria .....	1,260		1,260		
27	J. Turbett.....	Peoria .....	1,200		1,260		
28	Walk & Welsh.....	Peoria .....	946		946		
29	J. Staton.....	Orchard Mine .....	940		940		
30	Cluskey & Co.....	Monica .....	840		840		
31	D. Roberts.....	Orchard M'ies .....	720		720		
32	Black Bros.....	Reed City.....	640		640		
33	Bell Coal Co.....	Peoria .....	620		620		
34	Wheeler Bros.....	Orchard M'ies .....	560		560		
35	A. Johnson.....	Hanna City.....	500		500		
36	J. Sanders.....	Monica .....	500		500		
37	Wm. Clarkson.....	Edwards .....	460		460		
38	Jas. Pemble.....	Elmwood.....	450		450		
39	D. T. Sanders & Son.....	Glasford.....	450		450		
40	Robert Culbertson.....	Brimfield.....	420		420		
41	Clark & Rook.....	Brimfield.....	400		400		
42	Dannie Lamay.....	Monica .....	380		380		
43	Hand & Ash.....	Laura .....	360		360		
44	A. L. Thurman.....	Laura .....	300		300		
45	W. E. Doyle.....	Laura .....	260		260		
46	H. Durant.....	Brimfield.....	250		250		
47	Chas. Carroll.....	Duncan .....	200		200		
48	E. H. Graves.....	Princeville .....	200		200		
49	Harry Green.....	Jubilee.....	160		160		
50	C. E. Pratt.....	Jubilee.....	140		140		
Totals .....			139,916	16,030	118,536		
Totals—69 mines.....			939,737	227,420	534,080		80,137

Mines in 1903.  
 New mines, 4.  
 Abandoned mines, 4.  
 Mines in 1904, 69.

*Peoria County—Third District—Concluded.*

Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
400	\$19,503	14	3	17	.....	.....	17,860	400	230	18,260	1
.....	14,153	8	9	10	.....	.....	12,640	.....	210	12,640	2
730	11,524	10	3	13	.....	.....	10,140	530	210	10,670	3
250	9,144	6	12	8	.....	.....	7,760	250	240	8,010	4
.....	10,860	6	12	8	.....	.....	7,240	.....	220	7,240	5
.....	10,230	6	12	9	.....	.....	6,820	.....	200	6,820	6
.....	10,170	7	12	9	.....	.....	6,780	.....	210	6,780	7
.....	11,460	8	12	10	.....	.....	5,680	.....	250	5,680	8
.....	7,800	8	12	11	.....	.....	5,200	.....	118	5,200	9
.....	7,800	6	12	8	.....	.....	5,200	.....	200	5,200	10
.....	6,390	6	12	8	.....	.....	4,260	.....	210	4,260	11
.....	7,460	5	1	6	.....	.....	3,730	.....	210	3,730	12
.....	7,280	2	1	3	.....	.....	3,640	.....	180	3,640	13
.....	7,220	4	1	5	.....	.....	3,610	.....	160	3,610	14
.....	5,190	4	1	5	.....	.....	3,460	.....	230	3,460	15
.....	4,860	4	4	8	.....	.....	3,240	.....	200	3,240	16
.....	4,130	6	2	8	.....	.....	2,980	.....	220	2,980	17
.....	4,020	4	1	5	.....	.....	2,690	.....	220	2,690	18
.....	3,750	6	2	8	.....	.....	2,500	.....	100	2,500	19
.....	3,600	3	1	4	.....	.....	2,400	.....	200	2,400	20
.....	2,700	3	1	4	.....	.....	1,800	.....	200	1,800	21
.....	3,200	4	1	5	.....	.....	1,600	.....	190	1,600	22
.....	3,160	4	1	5	.....	.....	1,580	.....	240	1,580	23
.....	3,040	3	2	5	.....	.....	1,520	.....	250	1,520	24
.....	2,520	2	1	3	.....	.....	1,260	.....	200	1,260	25
.....	1,890	6	2	8	.....	.....	1,260	.....	230	1,260	26
.....	1,800	2	1	3	.....	.....	1,200	.....	180	1,200	27
.....	1,419	6	2	8	.....	.....	946	.....	100	946	28
.....	1,410	3	.....	3	.....	.....	940	.....	240	940	29
.....	1,680	2	.....	2	.....	.....	840	.....	200	840	30
.....	1,080	.....	.....	.....	.....	.....	720	.....	100	720	31
.....	960	.....	.....	.....	.....	.....	640	.....	160	640	32
.....	930	.....	.....	.....	.....	.....	620	.....	200	620	33
.....	840	.....	.....	.....	.....	.....	560	.....	160	560	34
.....	750	.....	.....	.....	.....	.....	500	.....	120	500	35
.....	1,000	.....	.....	.....	.....	.....	500	.....	180	500	36
.....	690	4	1	5	.....	.....	460	.....	240	460	37
.....	900	6	1	7	.....	.....	450	.....	210	450	38
.....	535	4	2	6	.....	.....	450	.....	230	450	39
.....	840	1	1	2	.....	.....	420	.....	180	420	40
.....	800	1	1	2	.....	.....	400	.....	300	400	41
.....	760	1	1	2	.....	.....	380	.....	220	380	42
.....	720	1	1	2	.....	.....	360	.....	200	360	43
.....	600	1	1	2	.....	.....	300	.....	230	300	44
.....	520	1	1	2	.....	.....	260	.....	200	260	45
.....	500	1	1	2	.....	.....	250	.....	210	250	46
.....	400	1	1	2	.....	.....	200	.....	190	200	47
.....	400	1	1	2	.....	.....	200	.....	.....	200	48
.....	300	1	1	2	.....	.....	160	.....	.....	160	49
.....	280	1	1	2	.....	.....	140	.....	.....	140	50
1,380	\$203,138	212	75	287	.....	.....	138,736	1,180	200	139,916	
22,413	\$1,166,657	1,008	363	1,371	763,406	.....	152,934	23,397	.....	939,737	

E.—Average price paid for hand mining local mines for year, \$0.734 per ton.



*Schuyler County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	William Cummings.....	Rushville.....	2,880		2,880		
2	B. F. Harris.....	Ray.....	2,600		2,600		
3	George Montooth.....	Ray.....	2,400		2,400		
4	Robert Keer.....	Rushville.....	2,340		2,340		
5	Williams & Clark.....	Rushville.....	2,340		2,340		
6	Hederick & Wetmore.....	Frederick.....	870		870		
7	Rufus Porter.....	Ray.....	850		850		
8	Alfred Nasbey.....	Pine Grove.....	780		780		
9	Ralph Strong.....	Pleasant View.....	700		700		
10	Velpo Roca.....	Pleasant View.....	650		650		
11	John Cagle.....	Littleton.....	600		600		
12	John W. Hamilton.....	Frederick.....	400		400		
13	F. W. Croxton.....	Pleasant View.....	350		350		
14	O. A. Alexander.....	Huntsville.....	460		460		
15	George Edwards.....	Huntsville.....	200		200		
Totals .....			18,400		18,400		

Mines in 1903, 15.

Mines in 1904, 15.

*Schuyler County—Third District—1904.—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$3,861	9	1	10			2,860		190	2,860	1
		3,510	5	1	6			2,600		240	2,600	2
		3,240	7	1	8			2,400		110	2,400	3
		3,159	4	1	5			2,340		110	2,340	4
		3,158	7	1	8			2,340		100	2,340	5
		1,088	4	1	5			870		160	870	6
		1,275	4		4			850		200	850	7
		1,170	4		4			780		180	780	8
		700	2		2			700		210	700	9
		650	4		4			650		150	650	10
		900	3		3			600		180	600	11
		500	2		2			400		80	400	12
		350	2		2			350		90	350	13
		920	2		2			460		110	460	14
		300	2		2			200		100	200	15
		\$24,782	61	7	68			18,400		157	18,400	

RE.—Average price paid for hand mining, \$0.804 per ton.

*Tazewell County—Third District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Phoenix Coal Co., Hilliard No. 1..	Peoria .....	43,232	43,232			
2	Tazewell Coal Co.....	Pekin .....	25,300	13,900	5,780		
3	Erie Starr Coal Co.....	Peoria .....	21,618	5,968	10,110		
4	Lake Erie Coal & Mining Co.....	Peoria .....	18,200	9,070	6,000		
5	Little Coal Co., Hilliard No. 2.	Peoria .....	18,140	18,140			
Totals.....			126,490	90,240	21,890		
LOCAL MINES.							
1	A. G. Cummings, Standard .....	East Peoria ..	14,744	420	10,000		300
2	Grossweiler & Co.....	East Peoria ..	14,700	3,500	8,200		
3	Eastern Coal Co.....	Peoria .....	10,960	10,960			
4	L. Grant & Sons .....	Pekin .....	8,800	8,800			
5	Doering Coal Co., B. & B. ....	Peoria .....	6,480	2,540	2,960		
6	Giebelhausen & Son .....	East Peoria ..	6,237	6,237			
7	Bohlander Bros., Victor. ....	Pekin .....	4,600		4,600		
8	Manhattan Coal Co.....	East Peoria ..	3,600	3,000			
Totals.....			70,121	35,457	25,760		300
Totals 13 mines .....			196,611	125,697	47,650		300

Mines in 1903, 16.  
Mines abandoned, 3.  
Mines in 1904, 13.

*Tazewell County—Third District—1904.—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$49,716	55	21	76	42,632		600		210	43,232	1
		23,935	45	11	56	17,600		7,000	700	210	25,300	2
	1,161	27,694	23	11	34	14,740		5,717	1,161	233	21,618	3
		21,870	23	11	34	7,641		9,909	650	230	18,200	4
		20,861	20	8	28	17,690			450	200	18,140	5
	1,161	\$144,076	166	62	228	100,303		23,226	2,961	219	126,490	
	707	\$19,405	15	10	25			14,037	707	198	14,744	1
		22,450	5	2	7			14,700		200	14,700	2
		14,248	26	4	30			10,960		210	10,960	3
		11,000	12	4	16			8,800		220	8,800	4
		8,824	10	5	15			6,480		230	6,480	5
		9,355	8	2	10			6,237		200	6,237	6
		8,050	5	2	7			4,600		240	4,600	7
		3,990	5	3	8			3,600		200	3,700	8
	707	\$97,322	86	32	118			69,414	707	211	70,121	
	1,868	\$241,398	252	94	346			92,640	3,668		196,611	

TE.—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.62; April 1, 1904, to July 1, 1904, \$0.59; average price for year \$0.615 per ton; average price local \$0.634 per ton.

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Fulton.....	20	1,222,483	232,829	598,473	107,601	58,878	139,904	84,708	\$1,534,88
Hancock.....	1	8,320		8,320					14,50
McDonough.....	2	23,854	9,729	12,235			1,890		41,10
Menard.....	8	526,069	155,076	242,536	1,101	39,812	61,097	26,477	608,85
Peoria.....	19	799,821	211,390	415,544		80,137	71,717	21,033	963,519
Tazewell.....	5	126,490	90,240	21,890			13,199	1,161	144,08
Totals.....	55	2,707,087	699,264	1,298,998	108,702	178,827	287,897	133,379	\$3,302,06

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Cass.....	1	2,780		2,780					\$ 4.88
Fulton.....	34	61,796	9,500	50,228			2,068		90.03
Hancock.....	5	3,950		3,950					7.80
McDonough.....	62	36,720		36,462			258		70.60
Menard.....	7	17,664		17,664					30.83
Peoria.....	50	139,916	16,030	118,536			3,970	1,380	301.13
Schuyler.....	15	18,400		18,400					24.75
Tazewell.....	8	70,121	35,457	25,760		300	7,897	707	91.22
Totals.....	183	351,347	60,987	273,780		300	14,193	2,087	\$50.17
Totals, districts—all mines.....	238	3,058,414	760,251	1,572,778	108,702	179,127	302,090	135,466	\$3,832.31

Whole number of mines reported in 1903—243.

Number of new mines opened during the year—13.

Number of mines abandoned during the year—18.

Whole number of mines reported for 1904—238.

*ird District—1904—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	
	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
34	568	1,732	1,148,091	28,665	11,420	36,307	227	1,222,483	.....	\$0.6125	.....	43	16
12	2	14	8,320	.....	.....	.....	210	8,320	.....	1.25	.....	1	1
30	7	67	23,629	.....	.....	224	218	23,854	.....	1.107	.....	1	1
30	224	704	474,409	3,255	24,674	23,761	206	526,099	.....	0.5495	.....	22	8
36	288	1,084	763,406	.....	14,198	22,217	220	799,821	.....	0.6125	.....	32	16
36	62	228	100,303	.....	23,226	2,961	219	126,490	.....	0.615	.....	9	5
38	1,151	3,849	2,518,158	29,920	73,518	85,471	220	2,707,097	.....	0.6067	.....	108	47

*ird District—1904—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	
	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.	Number of steam boilers.	Number of fans.
7	3	10	.....	.....	2,780	.....	*	2,780	.....	\$1.00	.....	..	..
185	41	226	.....	.....	61,796	.....	189	61,796	.....	0.728	.....	2	1
21	5	26	.....	.....	3,950	.....	192	3,950	.....	1.25	.....	..	..
72	10	182	.....	.....	36,720	.....	184	36,720	.....	1.346	.....	2	1
30	12	42	.....	.....	17,664	.....	192	17,664	.....	0.598	.....	5	1
12	75	287	.....	.....	138,736	1,180	200	139,916	.....	0.734	.....	16	7
31	7	68	.....	.....	18,400	.....	157	18,400	.....	0.804	.....	1	..
36	32	118	.....	.....	69,414	707	211	70,121	.....	0.634	.....	6	5
14	185	959	.....	.....	349,460	1,887	183	351,347	.....	0.731	.....	31	15
72	1,336	4,808	2,518,158	29,920	422,978	87,358	.....	3,058,414	.....	.....	.....	140	62

\* Days of active operation not given.

## FOURTH INSPECTION DISTRICT—1904.

## TWENTY-FIRST ANNUAL REPORT.

Counties—Christian, Edgar, Logan, Macon, McLean, Shelby, Vermilion,  
Woodford.

THOMAS WEEKS, *Inspector*, Bloomington.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with the mining law of the State of Illinois, defining the duties of the State inspectors of coal mines, I have the honor to herewith submit the twenty-first annual report of the coal mines in the fourth inspection district. The tabular statements in the report contain the different items called for in the schedules.

The following is a summary of the items contained in the report:

Number of mines.....	98
Number of new mines.....	11
Number of abandoned mines.....	2
Number of shipping mines.....	46
Number of local mines.....	50
Tons of all grades.....	5,142,798
Tons of mine run.....	3,256,049
Tons of lump.....	1,002,282
Tons of egg.....	77,550
Tons of nut.....	157,002
Tons of pea or screenings.....	378,516
Tons of waste.....	140,465
Average value per ton mine run, shipping mines.....	\$1.0036
Average value per ton of lump, shipping mines.....	\$1.477
Average value per ton of egg, shipping mines.....	\$1.466
Average value per ton of nut, shipping mines.....	\$1.175
Average value per ton of pea or screenings, shipping mines.....	\$0.885
Average value per ton of waste, shipping mines.....	\$0.228
Aggregate value of total product.....	\$5,560,367
Number of miners.....	4,907
Number of other employes underground.....	1,367
Number of boys underground.....	26
Number of employes above ground.....	768
Total number of employes.....	7,528
Number of tons loaded on cars for shipment.....	4,204,000
Tons supplied to locomotives.....	228,770
Tons sold to local trade.....	511,000
Tons consumed and wasted at the mines.....	228,000
Average number of days in operation.....	4,094
Tons mined by hand.....	181,000
Tons mined by machines.....	4,961,798
Price paid for hand mining per ton.....	\$0.90
Price paid for machine mining per ton.....	\$1.00
Number of mines using machines.....	46
Number of machines in use.....	13
Number of kegs of powder.....	1
Amount of dynamite used, pounds.....	
Number of steam boilers, horizontal.....	
Number of steam boilers, upright.....	
Number of fatal accidents.....	
Number of non-fatal accidents.....	
Number of wives made widows.....	
Number of children left fatherless.....	

## NEW MINES.

In Vermilion county the Westville Coal Co. has completed its mine No. 2. This mine is intended for, and no doubt will be, a large producer in the near future, being fitted with all modern improvements. The escape and air shafts are completed and a 20-foot Crawford & McCrimmon fan installed. This company has also sunk mine No. 3, and have recently reached coal.

The Riolo Coal Co. is also sinking mine No. 4 in the same field.

The Electric Coal Co. has completed and equipped a new mine on the Big Four railroad about three miles west of Danville; the escapement and air shafts are also completed and a 15-foot Crawford & McCrimmon fan has been installed.

E. S. Gray has sunk and put in operation a new mine on the Big Four railroad about five miles west of Danville.

In Macon county the Blue Mound Coal Co., Blue Mound, has completed the sinking of its mine at that place; striking the number five seam at a depth of 500 feet; the coal is five feet and two inches thick. This mine is equipped with a steel tower, Duncan shaker screen and cages, and Litchfield engines, 24x36 inches. The air and escape shaft, which will be 8x12 feet in the clear, is now down about 150 feet.

The Manufacturers and Consumers Coal Co. of Decatur, has completed and put in operation a new mine at Decatur, striking the number five seam at a depth of 544 feet; the seam has an average thickness of four feet eight inches; the company has opened this mine on the room-and-pillar system, and have put in mining machinery. This is a departure from the system in the other two mines at Decatur, both of which are working on the long-wall plan. The engines are first motion. The company has also put in shaker screens to handle the output. The escape shaft is down about 450 feet.

In Shelby county the Century Coal Co. of Tower Hill, reached the coal about a year ago, at a depth of 802 feet, striking the Pana seam, with a thickness of eight feet; however, no work has been done excepting the driving of entries some 300 or 400 feet from the bottom. The engines, tower and cages are now in place and everything ready to begin operations as soon as a mining price can be agreed upon. The escape and air shaft, which is 8x12 feet in the clear, is down about 400 feet.

The foregoing are all shipping mines; regarding the local mines, there has been more or less changes as usual from year to year, and it will not add to the interest of this report to give such changes in detail.

## ABANDONED MINES.

There have been no shipping mines abandoned in this district this year; but among the local mines there have been quite a number abandoned, and a like number have taken their places; the individual cases have not been noted.

## PROSPECTIVE MINES.

The Kirksville Coal Co., Kirksville, Moultrie county, is sinking a shaft at that place. The shaft is now down about 100 feet; the company expects to strike the small seam, which is worked in Shelby county, at a depth of 150 feet, then drill from that depth and find what seam is below, if any. Some 30 or 35 years ago there was a small mine operated about half a mile from the present opening, which is one mile south of the village of Kirksville. The present company is composed of citizens of Sullivan and Kirksville, prospecting ventures are being made, the outcome of which is problematical.

The Lovington Coal Co., Lovington, Moultrie county, has commenced the sinking of a shaft at that place. This is the same location where the Moultrie County Coal Co. began to sink a shaft two years ago and failed. The new company is making the second attempt in sinking and hope to be successful.

The Christian County Coal Co. has commenced sinking operations at Stonington, Christian county.



## IMPROVEMENTS,

The Latham Coal Co. of Lincoln, has put in a new 12-foot Robinson fan, and has also made changes underground, putting in overcasts, and splitting the air which has improved the ventilation materially.

The Citizens Coal Co. Lincoln, has raised the tower at its mine, putting in a new foundation. The company has also put in a 100-ton scale, two shaker screens and built a 350-ton screen house with roller screens; a relief shaft has been sunk to the lake a depth of 45 feet.

The Newbent Coal Co. of Pana, is putting in shaker screens.

## MINE FIRES.

The engine house, tippie and other buildings of the Brookside Coal Co., Danville, Vermilion county, was destroyed by fire Oct. 31, 1903; as the mine was nearly finished the company did not rebuild the structures and went out of business.

C. J. White, a member of the company, however, rebuilt the part of the trestle which was destroyed by fire. The mine being a slope, it is now being operated by drawing the pillars; it is only a question of a short time when the pillars will be exhausted and the mine will be abandoned.

Dec. 17, 1903, the Lincoln Coal Co.'s mine at Lincoln, Logan county, was discovered to be on fire by the mine examiner, when going down the shaft to begin his duty of examining the mine. The engine that operates the endless rope haulage, is situated on the bottom of the shaft, as is also the fan used to ventilate the mine. The fire started in the engine house, destroying it and the fan and fan house. One hundred feet of the timbers along the entry at the bottom of the shaft were destroyed. Before work could be resumed at the bottom, about 60 feet of the top of the shaft had to be retimbered. The work of repairing the damage is now nearing completion, and the company expects to commence mining coal again in a short time. The loss entailed by the fire is estimated at \$50,000.

## BUSINESS CHANGES.

The Colfax Coal Co., Colfax, McLean county, has sold its mine at that place to a number of miners who are operating it under the name of the Colfax Co-operative Coal Co.

The Berwick Coal Co., of Chenoa, McLean county, has disposed of its mine at that place to the Consumers Coal Co., of Chicago, which has been operating it since July 1, 1903.

Sutton & Weber of Rutland, LaSalle county, have leased the mine at Minonk, Woodford county, which has been closed down since March, 1901; they will operate it under the name of The Minonk Coal Co.

## FATAL ACCIDENTS.

It will be seen, by noting the causes of the accidents, here reported, that a large percentage might have been avoided by the exercising of ordinary care on the part of those who have been killed. However, there does not appear to be any method nor argument that can be advanced which will induce the miner and the workmen to take proper precautions to secure their own safety.

July 10, 1903, John Jones, colored, miner, aged 38 years, married, employed in mine No. 1, of the Westville Coal Co., Westville, Vermilion county, was instantly killed by falling rock. The deceased was mining some loose coal from a shot that had been fired the night before, when a piece of rock fell from a slip, crushing his head. He leaves a widow.

July 16, 1903, Henry Busiere, Sr., miner, aged 46 years, married, employed by the Kellyville Coal Co., at the Pawnee mine, Grape Creek, Vermilion county, was injured by falling rock in room 13, off of the 24th south shaft, from the effects of the injuries he died two days afterwards. He leaves a widow and five children dependent.

July 18, 1903, John Ray, miner, aged 30 years, married, employed in mine No. 4, of the Kellyville Coal Co., at Westville, Vermilion county, was instantly killed by falling rock in the second north entry; he had started a cross-cut in the face of the entry and was making ready to put up a crossbar, when the rock fell with the result as stated. He leaves a widow and three children.

Aug. 13, 1903, John Lane, brakeman, aged 21 years, single, employed by the Consolidated Coal Co., at the Mission Field mines, Vermilion county, was fatally injured in the afternoon and died eight hours afterwards. Deceased was riding on the footboard of the locomotive which pulls coal from the mines to the railroad, accidentally falling, the wheels passed over him, inflicting severe injuries, resulting as above stated.

Sept. 2, 1903, William Bitof, miner, aged 27 years, single, employed in mine No. 4, of the Kellyville Coal Co., Westville, Vermilion county, was instantly killed by falling rock at the face of his room. There was a coal slip at this face, which loosened a large piece of rock, causing it to fall with the result as stated.

Nov. 17, 1903, Theobald Young, laborer, aged 33 years, married, employed at the Kellyville Coal Co. mine No. 3, Danville, Vermilion county, while engaged in removing some rock in room No. 21, off the ninth north entry, was injured by falling rock, from the effects of which he died 11 days afterwards. He leaves a widow and three children.

Nov. 22, 1903, John Gedirlar, miner, aged 23 years, single, employed by the Kellyville Coal Co., at mine No. 4, Westville, Vermilion county, was instantly killed by flying coal from a shot in room No. 2, off the fourth south entry. Deceased had lit two shots, one having exploded, and he supposed the other had missed fire; he went to the room to investigate, just as he reached the face of the room the second shot exploded with the result as stated.

Dec. 9, 1903, Allen Cox, top-weighman, aged 54 years, married, employed by the Pana Coal Co., at mine No. 1, Pana, Christian county, was fatally injured while repairing the roller screen. Deceased, with some other men, his son among the number, were engaged in cleaning slack and fine coal around the screen house and elevators. Cox, leaving the other men, went up into the screen house to repair some broken places in one of the screens; his son having forgotten or not knowing that his father was working in the screens, started the engine, causing the screens to revolve; before the engine could be stopped, or Cox taken out, he received injuries which caused his death before he reached his home. He leaves a widow and eight children.

Dec. 19, 1903, Charles Yodalis, miner, aged 35 years, in the employ of the Kellyville Coal Co., at mine No. 3, Westville, Vermilion county, was instantly killed, by falling rock, in room No. 6, off of the tenth northwest entry. Deceased was loading a car of coal when a piece of rock about six feet long, five feet wide and six inches thick on one edge, thinning to a feather on the other, fell on him, with the result as stated. He leaves a widow and two children.

Dec. 21, 1903, Daniel Craig, engineer, aged 58 years, married, was injured in mine No. 3, of the Kellyville Coal Co., Westville, Vermilion county, and died from his injuries Dec. 29, 1903. Deceased was engaged in his duties looking after the engine, which pulls the coal cars from the inside with an endless rope; this engine is located at the bottom of the shaft; in some manner, unknown, he was caught in the hauling rope and dragged into the wheels, cutting off one of his legs. He was a widower, and leaves four children.

December, 26, 1903, Samuel E. Shadden, assistant cager, aged 36 years, married, employed by the Springfield Coal Mining Co., at mine No. 6, Taylorville, Christian county, was fatally injured, being crushed by a loaded pit-car falling on him. The deceased was in the act of pushing an empty car back from the cage, a loaded car had been put on the cage, but had been pushed too far over; before the latter car could be pulled back onto the cage, the engineer hoisted the cage, the end of the loose car catching on the door-head which pulled it off the cage, and it fell on Shadden. He died less than two hours afterwards, leaving a widow and five children.

January 9, 1904, Ori Osborn, driver, aged 25 years, single, in the employ of the Moweaqua Coal Mining Co., at Moweaqua, Shelby county, while attempting to stop his trip was run over by a loaded pit-car, breaking his thigh near the hip and inflicting other injuries, from the effects of which he died Jan. 23, 1904.

Jan. 12, 1904, Joe Glarze, miner, aged 55 years, married, employed in mine No. 3 of the Kellyville Coal Co., Westville, Vermilion county, was instantly killed by falling rock at the face of his room. He leaves a widow dependent.

January 15, 1904, George Jasinski, miner, aged 35 years, single, employed in the Pawnee mine of the Kellyville Coal Co., Grape Creek, Vermilion county, was instantly killed by falling rock in his room. Deceased was leaning over the front end of the car, which he had just commenced to load, when a mass of rock fell, and crushed him.

January 30, 1904, Max Pouse, miner, aged 26 years, single, in the employ of the Latham Coal Co., Lincoln, Logan county, was instantly killed by flying coal from a shot. The accident happened about 4:15 p. m., as all the firing is done at quitting time in this mine; the men also work single. From the appearance of the room afterwards, there had been two shots fired; from the position of the body, when found, the deceased must have been standing directly in front of the shot when it exploded, as he was lying on his back, his breast crushed, and his collar bone and one arm broken; his face was also cut and bruised with the fine coal, and the back of skull crushed. His body was lying at a distance of about 20 feet from the face of the room. Pouse had been in this country about eight months, and leaves a dependent mother in Germany.

February 10, 1904, Charles Darges, miner, aged 40 years, married, was fatally injured by falling rock at the face of his room in mine No. 3 of the Kellyville Coal Co., at Westville, Vermilion county. He died from the injuries received six days afterwards, leaving a widow and one child.

February 13, 1904, Mike Wornotski, miner, aged 35 years, married, was killed instantly at the Kellyville Coal Co., mine No. 3, Westville, Vermilion county. Deceased was drawing pillars on the seventh northwest entry; he attempted to wedge down a small piece of loose rock, but failed; he went to work under the rock, when it fell on him with the result as stated. He leaves a widow and one child.

February 22, 1904, G. W. Lee, miner, aged 26 years, single, employed at the Kellyville Coal Co., No. 4 mine, Westville, Vermilion county, was instantly killed by flying coal from a shot. Deceased and his uncle, Chas. Bonnett, with whom he worked, had prepared four shots, two of which they fired with squibs, and two with fuse; the shots with squibs were exploded and the men returned to light the fuse of the other two shots; one of these shots had exploded. They were in doubt as to the proper lighting of the other fuse, and returned to the room; when near the face of the second shot exploded, a piece of the flying coal striking Lee in the forehead with the result as stated.

February 26, 1904, William Green, driver, aged 21 years, married, in the employ of the Westville Coal Co., at mine No. 1, South Westville, Vermilion county, was instantly killed by a loaded pit-car. Deceased had brought his trip out to the parting, from which place the motor takes the cars to the bottom of the shaft. Green was walking in front of the cars when by some means he slipped and fell, the wheels passing over his neck. He leaves a widow.

March 9, 1904, James Rimkis, miner, aged 38 years, married, in the employ of the Kellyville Coal Co., at mine No. 3, Westville, Vermilion county, was injured by flying coal from a shot. He died from the injuries four days afterwards. Deceased was standing in front of his own room on the entry when the shot went off. He leaves a widow and one child in the old country.

March 17, 1904, Gust Erricson, miner, aged 58 years, married, in the employ of the McLean County Coal Co., Bloomington, McLean county, was almost instantly killed by being run over by empty pit-cars. In this mine there is tail rope haulage; and for a distance of 3,000 or 4,000 feet there is a double track, with a separate rope for each track; Erricson having finished his day's work, had started to walk to the shaft bottom; on his way he was overtaken by the loaded trip in the middle of which was an empty car in which some men were riding to the bottom. It appeared from the evidence at the coroner's in-

quest that Erricson attempted to get into that car when he was struck by the empty trip, which was passing on its way inside, and knocked under the cars. He died in ten or fifteen minutes after being taken from under the cars. He leaves a widow and four grown children.

March 23, 1904, Claude Wolf, trapper, aged 16 years, employed by the Latham Coal company, Lincoln, Logan county, was fatally injured by a loaded pit-car running over him, from the effects of which he died four hours afterwards. The driver had stopped his mule at the door to fill his lamp with oil; while doing so the mule started and the boy thinking he was going to run away, jumped on the seat to stop the mule. There being a down grade at that place and the cars running rather fast the boy became frightened, lost his light and jumped from the car to the side; the first car passed him, when he either stepped or fell between the cars, the last one passing over him with the above result.

April 27, 1904, Charles Margus, driver, aged 24 years, single, employed in the Kellyville Coal company's mine No. 3, Westville, Vermilion county, was instantly killed by being crushed between an empty pit-car and the coal rib. Deceased was riding on the front end of the empty car when the mule came to the entry, into which it should have turned; he continued on the straight road; the car, however, took the switch and was pulled off of the track crushing the driver as stated. Margus was not a regular driver.

May 11, 1904, Joseph Lecowieys, timberman, aged 27 years, married, employed in the Kellyville Coal company's mine No. 2, Kellyville, Vermilion county, was instantly killed by falling rock. Deceased was breaking up some rock, which had fallen on the fourth north entry when a mass of rock eight feet long, four feet wide and eighteen inches thick, which he had failed to secure, fell on him with the result as stated. He leaves a widow and two children.

May 12, 1904, Felix Opochini, miner, aged 29 years, single, employed in the mine at Fairmount, Vermilion county, operated by the Consolidated Coal company, was instantly killed by falling rock at his working place.

June 21, 1904, Robert Edwards, miner, aged 50 years, married, employed by the Kellyville Coal company at mine No. 2, Kellyville, Vermilion county, was instantly killed by the explosion of powder, while attempting to force the charge back that had stuck in the drill hole; he used an iron tamping bar, which evidently produced a spark, igniting the powder. He leaves a widow and two children.

June 25, 1904, Theodore Bartrz, miner, aged 28 years, married, employed at the Westville Coal company's mine No. 1, Westville, Vermilion county, was fatally injured by falling rock in the face of his working place. He died while being taken to the hospital. He was a widower and left one child.

June 28, 1904, Benjamin Rhodes, sinker, aged 32 years, married, and Wilse Reed, sinker, aged 26 years, single, employed by the Kirksville Coal company, Kirksville, Moultrie county, were killed by falling down the shaft being sunk at that place. One peculiarity about this accident is to report men being killed in a county that has never produced any coal, nor ever appeared among coal producing counties in the reports. Rhodes and Reed, both sinkers, had come out of the shaft after lighting a shot; after the shot had exploded they entered the bucket to descend into the shaft; just as they got below the surface the hook on which the bucket was hung broke, precipitating them to the bottom, a distance of about 100 feet. Rhodes was killed instantly and Reed died about five hours after the accident occurred. The men were residents of Shelbyville, Shelby county. Rhodes left a widow and five children.

In conclusion I desire to acknowledge the valuable assistance rendered by the several county mine inspectors of this district.

All of which is respectfully submitted,

THOMAS WEEKS,  
*State Inspector of Mines, Fourth District, Bloomington.*

*Fatal Casualties—Fourth District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of accident.
1903.									
July 10	John Jones.....	38	Miner.....	1	1			1	Falling rock.....
July 16	Henry Busiere, Sr....	46	Miner.....	1	1	5		6	Falling rock.....
July 18	John Ray.....	30	Miner.....	1	1	2		3	Falling rock.....
Aug. 13	John Lane.....	21	Breakman.....				1		Run over by K. R. cars.....
Sept. 2	Wm. Bitof.....	27	Miner.....				1		Falling rock.....
Nov. 17	Theobald Young.....	33	Laborer.....	1	1	3		4	Falling rock.....
Nov. 22	John Gedvilar.....	23	Miner.....				1		Flying coal.....
Dec. 9	Allen Cox.....	54	Weighman.....	1	1	8		7	Roller screen.....
Dec. 19	Charles Yodalis.....	35	Miner.....	1	1	2		3	Falling rock.....
Dec. 21	Daniel Craig.....	58	Engineer.....	1		4		4	Haulage rope.....
Dec. 26	Sam'l Edgar Shadden	36	Ass't cager.....	1	1	5		6	Falling car of coal from cage.....
1904.									
Jan. 9	Ori Osborn.....	25	Driver.....				1		Pit car.....
Jan. 12	Joe Glaye.....	55	Miner.....	1	1	3		4	Falling rock.....
Jan. 15	Geo. Gasinski.....	35	Miner.....				1		Falling rock.....
Jan. 30	Max Pouse.....	26	Miner.....				1	1	Flying coal.....
Feb. 10	Charles Darges.....	40	Miner.....	1	1	2		3	Falling rock.....
Feb. 13	Mike Wornotski.....	35	Miner.....	1	1	1		2	Falling rock.....
Feb. 22	G. W. Lee.....	26	Miner.....				1		Flying coal.....
Feb. 26	William Green.....	21	Driver.....	1	1			1	Pit car.....
Mar. 9	James Rimkis.....	38	Miner.....	1	1	2		3	Flying coal.....
Mar. 17	Gust Earricon.....	58	Miner.....	1	1	4		1	Pit car.....
Mar. 23	Claude Wolf.....	16	Trapper.....				1		Pit car.....
April 27	Charles Margus.....	24	Driver.....				1		Pit car.....
May 11	Joseph Lecowicys.....	27	Laborer.....	1	1	1		2	Falling rock.....
May 12	Felix Opochinski.....	29	Miner.....				1		Falling rock.....
June 21	Robert Edwards.....	50	Miner.....	1	1	2		1	Premature blast.....
June 25	Theodore Barty.....	45	Miner.....				1		Falling rock.....
June 28	Ben Rhodes.....	32	Sinker.....	1	1	5		6	Falling down shaft.....
June 28	Wilse Reed.....	28	Sinker.....				1		Falling down shaft.....
Total 29.....				17	16	49	12	58	

*capitulation of Fatal Casualties—Fourth District—1904.*

ence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
ington.	1	Miners.....	17	Falling rock.....	13	Consolidated Coal Co.	1
.....	4	Brakeman .....	1	Falling cage.....	1	Kelly's No. 2.....	2
int.....	1	Laborers.....	2	Falling down shaft.	2	Kelly's No. 3.....	7
reek.....	1	Weighman .....	1	Flying coal.....	4	Kelly's No. 4.....	4
le.....	1	Engineer .....	1	Haulage rope .....	1	Kelly's No. 5.....	1
.....	2	Cager Ass't. ....	2	Pit car .....	5	Kirksville .....	2
qua.....	1	Drivers.....	3	Premature blast .....	1	Latham Coal Co.....	2
d.....	1	Trapper.....	1	Roller screen.....	1	Missionfield .....	1
ille.....	1	Sinkers.....	2	Run over, R.R. cars	1	Mowequa C. M. Co....	1
ille.....	1					Pawnee .....	1
le.....	11					Pana Coal Co.....	2
						McLean county C. Co.	1
						Sp'grd C. M. Co., No. 6	1
						Westville, No. 1.....	3
l.....	29		29		29		29

## Non-Fatal Casualties—Fourth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1903										
July	5 Ed. Trooper.	21	Driver.	Grape Creek.		1			Arm broken; falling rock.	57
	20 Tony Hauser.	32	Rockman.	Westville.					Foot crushed; falling rock; amputated.	40
	32 Mike Michel.	35	Miner.	Westville.	1				Hand broken; falling rock.	40
	20 Anton Butkovicsek.	42	Miner.	Bloomington.	1		2		Ankle dislocated; falling coal.	130
Aug.	8 Thos. Moran.	42	Driver.	Assumption.	1				Heel mashed; pit car.	40
	8 James Hart.	45	Teamster.	Oakwood.	1		1		Hand cut.	42
	11 Wm. Owens.	23	Driver.	Hinrod.	1				Collar bone broken; pit car.	42
	19 Thomas Farrand.	37	Driver.	Lincoln.	1		2		Leg broken; falling slate.	34
	24 H. Skipworth.	21	Driver.	Hinrod.	1				Head injured; falling rock.	60
Sept.	2 Lacy Pir.	11	Miner.	Assumption.	1				Leg injured; falling rock.	32
	8 B. Carrelle.	48	Miner.	Roanoke.	1		1		Collar bone fractured; falling coal.	90
	9 George Hoff.	22	Miner.	Georgetown.	1				Leg broken, badly bruised; falling rock.	30
	18 James Jennings.	30	Driver.	Colfax.	1				Body bruised; pit car.	30
	18 Harvey Hill.	40	Miner.	Catlin.	1		3		Ankle injured; falling slate.	180
	19 William Huglia.	21	Miner.	Danville.	1				Leg broken; falling rock.	40
	21 E. Garr son.	30	Trimmer.	Taylorville.	1		1		Arm broken; falling off elevator.	30
	23 Joseph Routy.	18	Miner.	Farmount.	1				Foot broken; falling coal.	90
	23 Louis Yourkensky.	48	Miner.	Kelleyville.	1		2		Arm broken; falling coal.	90
	24 John Petosky.	52	Miner.	Westville.	1				Foot broken; falling rock.	90
Oct.	24 William C. Jones.	21	Miner.	Taylorville.	1		1		Body injured; falling coal.	90
	1 D. Bridgewater.	48	Rockman.	Westville.	1		4		Body bruised; falling rock.	90
	2 William Robinson.	23	Miner.	Danville.	1		1		Head injured; falling rock.	45
	6 Ed. Wingfield.	35	Miner.	Catlin.	1				Hips bruised; falling slate.	52
	10 Lewis Rodgers.	46	Timberman.	Westville.	1				Hips and back injured; falling rock.	35
	19 Thomas Green.	23	Rockman.	Bloomington.	1		2		Shoulder and hand injured; falling rock.	90
	24 Thomas Jonchas.	60	Miner.	Farmount.	1				Leg broken; falling rock.	90
	28 Richard Barry.	35	Timberman.	Lincoln.	1		2		Leg broken; falling slate.	90
	29 Ura Pelsler.	32	Miner.	Danville.	1				Back injured; falling rock.	30
Nov.	4 William Humble.	47	Miner.	Danville.	1		2		Back injured; falling rock.	40
	10 John Schlepp.	30	Driver.	Hinrod.	1				Hips injured; pit car and door.	30
	11 John Maculis.	30	Miner.	Westville.	1				Body injured; falling rock.	35
	13 Tony Kamiske.	33	Miner.	Farmount.	1		1		Thumb cut off; by ax.	30
	15 Charles Richards.	30	Miner.	Farmount.	1				Body injured; falling rock.	43
	17 John Richards.	19	Miner.	Grape Creek.	1				Shoulder dislocated; falling rock.	43
	18 Geo. Bromley, Sr.	57	Engineer.	Richland.	1		3		Shoulder dislocated; falling tippie.	45

Nov.	19 C. L. Krone.....	40 Miner.....	Bloomington.....	3	4 Hand injured; finger cut off; pit cars.....	30
	20 John Anderson.....	39 Miner.....	Bloomington.....	1	Leg broken; falling rock.....	32
Dec.	1 Edward Colvin.....	37 Driver.....	Westville.....	1	Toe cut off; pit car.....	13
	2 A. Ragner.....	37 Mach. runner.....	Westville.....	3	Back and hips injured; falling rock.....	130
	3 John Fowers.....	30 Miner.....	Decatur.....	1	Collar bone broken; falling coal.....	6
	8 Joseph Jones.....	30 Driver.....	Danville.....	3	Back injured; falling rock.....	120
	9 William Coffey.....	18 Trapper.....	Danville.....	1	Foot broken; falling rock.....	30
	10 Louis Stutvegan.....	9 Laborer.....	Bloomington.....	1	Foot crushed; pit cars.....	60
	11 R. Roscoe.....	33 Miner.....	Lincoln.....	1	Back injured; overcome by smoke.....	18
	14 James Murdoch.....	31 Driver.....	Westville.....	1	Leg broken; pit car.....	90
	14 William Roeland.....	28 Mach. runner.....	Danville.....	2	8 Ribs broken; back injured; falling rock.....	30
	22 Tony Conmlski.....	28 Driver.....	Himrod.....	1	Body injured; roof and pit car.....	33
	23 William Garrot.....	30 Miner.....	Grape Creek.....	1	Body injured; falling coal.....	33
	30 Michael Strain.....	61 Miner.....	Kelleyville.....	1	Leg broken; falling coal.....	60
	30 Gottlieb Gerke.....	50 Miner.....	Decatur.....	1	7 Ribs broken; falling slate.....	90
	31 Tim. Downey.....	49 Miner.....	Lincoln.....	1	Body burned; shot explosion.....	60
1904						
Jan.	7 Joseph Boukaakie.....	40 Miner.....	Grape Creek.....	1	Leg broken; head injured; falling rock.....	97
	13 H. B. Gilbert.....	31 Miner.....	Collax.....	1	Back injured; falling rock.....	90
	13 John Kiewski.....	54 Miner.....	Decatur.....	1	Leg broken; falling coal.....	40
	14 R. Garrison.....	24 Driver.....	Taylorville.....	1	Foot crushed; pit cars.....	60
	18 Pat. McCann, Jr.....	23 Driver.....	Lincoln.....	1	Leg crushed; pit cars.....	30
	22 A. H. Kidd.....	32 Engineer.....	Fairmount.....	1	Leg scalded; escaping steam.....	55
	25 S. Ravopski.....	52 Miner.....	Westville.....	1	Leg broken; falling rock.....	38
	26 Joseph Shaffer.....	27 Miner.....	Pana.....	1	Hips injured; falling coal.....	30
	28 Cato Lallian.....	30 Miner.....	Catin.....	1	Head injured; falling slate.....	40
	29 Benjamin Hory.....	38 Laborer.....	Westville.....	1	Leg broken; falling rock.....	120
	1 J. H. Jones.....	23 Miner.....	Kelleyville.....	1	Leg broken; falling coal.....	52
Feb.	1 Frank Tulevix.....	37 Miner.....	Westville.....	1	Back and feet injured; falling rock.....	90
	2 J. W. Tracey.....	55 Miner.....	Taylorville.....	1	Leg broken; injured internally; falling coal.....	130
	4 Max. Hersog.....	20 Miner.....	Lincoln.....	1	Hip fracture; falling slate.....	90
	4 William Yukon.....	23 Miner.....	Himrod.....	1	Pelvis injured; falling rock.....	42
	11 Arthur Decavin.....	23 Miner.....	Catin.....	1	Head and hips injured; falling rock.....	30
	13 James Ross.....	41 Cager.....	Fairmount.....	1	Leg injured; pit car.....	45
	15 Frank Ambrose.....	35 Miner.....	Bloomington.....	1	Shoulder blade fractured; falling rock.....	30
	16 Tony Casois.....	27 Miner.....	Kelleyville.....	1	Leg broken; flying coal.....	120
	23 W. C. Rose.....	28 Driver.....	Danville.....	1	Hips and back injured; pit car.....	30
	23 R. W. Crawford.....	34 Miner.....	Danville.....	3	Eye put out; flying coal.....	45
Mar.	5 Henry Saunders.....	34 Miner.....	Danville.....	1	Hands and face burned; powder explosion.....	30
	5 John Mosko-ski.....	27 Miner.....	Fairmount.....	1	Back and hips injured; falling rock.....	31
	10 Benjamin Galloway.....	65 Miner.....	Bloomington.....	1	Leg broken; falling coal.....	90
	12 Theodore Hepner.....	52 Miner.....	Bloomington.....	1	8 Ribs broken; pit car.....	30
	12 C. L. Peterson.....	50 Miner.....	Bloomington.....	1	Hips and body bruised; pit cars.....	30
	12 W. T. Reed.....	40 Miner.....	Himrod.....	1	Back and ankle injured; falling rock.....	106
	14 Lois Primmer.....	15 Trapper.....	Danville.....	1	Collar bone broken; falling rock.....	117
	16 A. Showell.....	27 Miner.....	Westville.....	1	Pelvis injured; falling rock.....	125
	16 William Buss.....	50 Carpenter.....	Pana.....	1	Arm broken; by drill.....	36
	19 Charles Ladd.....	26 Miner.....	Westville.....	1	Body and face burned; powder explosion.....	32
	28 Ludwig Schudyard.....	65 Miner.....	Decatur.....	1	Back injured; falling coal.....	



## Non-Fatal Casualties—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
April	4 David James	41	Companyman	Danville	1	1			Foot injured, falling prop.	38
5 John Gicon	37	Miner	Westville		1	1			Leg broken, falling rock	87
11 George Songer	35	Miner	Richland		1	1			Arm broken, body injured, flying coal	*
40 Charles Swanson	40	Miner	Danville		1	1			Ribs broken, body injured, flying coal	30
11 Anton Dempine	46	Miner	Pana		1	1			Foot mashed, falling coal	30
22 Piet Buhrdis	37	Laborer	Fairmount		1	1			Head injured, falling rock	40
24 F. C. Powers	30	Miner	Georgetown		1	1			Face and hands burned, powder explosion	30
28 William Goss	29	Miner	Westville		1	1			Face and hands burned, powder explosion	40
25 Edward Pope	28	Miner	Pana		1	1			Ribs broken, falling coal	30
28 William Green	42	Miner	Pana		1	1			Leg injured, falling rock	80
30 Charles Duncan	19	Driver	Georgetown		1	1			Back injured, falling rock	65
May	3 James White	17	Miner	Pana	1	1			Kidneys ruptured, kicked by mule	*
5 Henry Bush	18	Miner	Westville		1	1			Leg broken, falling rock	56
10 James Thompson	23	Miner	Himrod		1	1			Hand and arm injured, pit cars	50
16 Erzell Coffey	40	Miner	Danville		1	1			Collar bone broken, mule falling on him	50
23 Joseph No ngatis	45	Miner	Westville		1	1			Finger cut off, pit cars	42
23 Joseph Shultz	45	Miner	Moweaqua		1	1			Leg broken, falling coal	90
24 Clyde Froud	20	Miner	Taylorville		1	1			Leg injured, falling coal	34
25 William Clark	22	Driver	Himrod		1	1			Shoulder and legs injured, falling coal	*
27 Louis Delsonit	40	Miner	Westville		1	1			Ribs fractured, falling rock	30
3 Albert McMaster	30	Miner	Kellyville		1	1			Leg broken, flying coal	30
8 Bird Peirce	26	Driver	Danville		1	1			Arm broken, pit cars	*
10 Edward Shepard	30	Driver	Grape Creek		1	1			Arm broken, pit cars	*
11 J. Grenaavage	23	Miner	Westville		1	1			Back injured, falling rock	30
13 William Cooper	28	Miner	Danville		1	1			Back injured, falling rock	30
	Totals				63	48	141	208		

\* Not recovered nor working July 1, 1904.

Total number of men injured	111	Total days lost by men recovered	5,731
Not recovered nor working July 1, 1904	12	Average days lost by men recovered	58
Number recovered July 1, 1904	99		

*Mortality of Non-Fatal Casualties—Fourth District—1904.*

ence.	No.	Occupation.	No.	Cause of accident.	No.	Colliery.	No.
tion ..	2	Cager .....	1	Axe .....	1	Assumption Coal Co. ....	2
ngton ..	9	Carpenter .....	1	Drill .....	1	Bloomington Coal Co. ....	1
.....	4	Dayman .....	1	Falling coal .....	18	Christian Co. Coal Co. ....	2
.....	2	Drivers .....	23	Falling cage .....	1	Citizens Coal Co. ....	4
e .....	17	Engineers .....	2	Falling mule .....	1	Colfax Coal Co. ....	2
.....	4	Laborers .....	3	Falling prop .....	1	Decatur Coal Co. ....	4
unt .....	7	Machine run'r .....	2	Falling rock .....	47	Economy Coal Co. ....	2
town ..	3	Miners .....	68	Falling slate .....	7	Georgetown Coal Co. ....	1
reek ..	5	Rockmen .....	3	Falling tippie .....	1	Fairmount Coal Co. ....	7
.....	8	Teamster .....	1	Flying coal .....	3	Georgetown Coal Co. ....	1
lle .....	5	Timbermen .....	3	Kick of mule .....	1	Himrod Coal Co. ....	16
.....	6	Trappers .....	2	Pit cars .....	21	Jones & Adams C. Co. ....	4
qua .....	1	Trimmer .....	1	Powder explosion .....	4	Kellyville Coal Co. ....	30
od .....	1	.....	.....	Shot explosion .....	1	Latham Coal Co. ....	2
.....	6	.....	.....	Smoke .....	1	McLean Coal Co. ....	8
d .....	2	.....	.....	Steam .....	1	Moweaqua Coal Co. ....	1
e .....	1	.....	.....	Not stated .....	1	Oakwood Coal Co. ....	1
lle .....	22	.....	.....	.....	.....	Pawnee Coal Co. ....	3
.....	.....	.....	.....	.....	.....	Penwell Coal Co. ....	4
.....	.....	.....	.....	.....	.....	Roanoke Coal Co. ....	1
.....	.....	.....	.....	.....	.....	Sp'g'd Coal Min'g Co. ....	4
.....	.....	.....	.....	.....	.....	Springside Coal Co. ....	7
.....	.....	.....	.....	.....	.....	Westville Coal Co. ....	7
al .....	111	.....	111	.....	111	.....	111

*Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fourth District—1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
dislocated .....	1	1	2	9	90	90	.90
injured .....	1	1	.....	4	30	30	.90
broken .....	8	6	2	14	402	50	7.21
injured .....	15	11	4	35	621	41	13.51
injured .....	9	3	6	20	371	41	8.11
bones broken .....	5	2	3	4	287	57	4.50
out .....	1	1	.....	3	45	45	.90
if hands burned .....	2	1	1	1	70	35	1.80
ut off .....	1	.....	1	.....	42	42	.90
broken .....	7	3	4	6	300	43	6.31
ured .....	1	.....	1	.....	38	38	.90
broken .....	1	1	.....	3	40	40	.90
injured .....	4	2	2	5	156	39	3.61
injured .....	5	2	3	5	154	31	4.51
ashed .....	1	1	.....	2	150	150	.90
if backs injured .....	3	3	.....	10	112	37	2.70
ured .....	4	.....	4	1	213	53	3.60
ruptured .....	1	.....	1	.....	.....	.....	.90
broken .....	21	12	9	38	1,746	83	18.92
ured .....	5	4	1	11	184	37	4.51
injured .....	2	.....	2	.....	159	79	1.80
broken .....	6	6	.....	27	240	40	5.41
r dislocated .....	1	1	.....	1	45	45	.90
rs injured .....	3	1	2	8	80	27	2.70
injured .....	1	.....	1	.....	43	43	.90
ut off .....	1	.....	1	.....	60	60	.90
off .....	1	1	.....	1	53	53	.90
als, averages and percentages .....	111	63	48	208	5,731	58	100.00

*Christian County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Springfield C. & M. Co., No. 6.....	Taylorville .....	208,892	107,168	76,247	.....	305
2	Christian Co. C. Co.....	Taylorville .....	188,113	104,171	59,066	.....	2,302
3	Penwell C. M. Co., Penwell.....	Pana .....	156,267	28,873	48,142	8,555	24,328
4	Newbent Coal Co., No. 2.....	Pana .....	113,977	22,795	40,040	5,206	10,671
5	Pana Coal Co., No. 1 .....	Pana .....	110,513	9,106	46,690	115	18,630
6	Manuf'rs Fuel Co., Springside....	Pana .....	110,503	110,503	.....	.....	.....
7	Assumption C. & M. Co., Assum'n	Assumption ..	96,534	.....	46,677	.....	19,837
8	Edinburg Coal Co., Edinburg....	Edinburg .....	1,886	.....	1,886	.....	.....
Totals .....			986,685	382,616	318,748	13,876	75,686

Mines in 1903, 8.

Mines in 1904, 8.

*Edgar County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINE.							
1	John Witte Coal Co., No. 1.....	Paris, Ill., R. R. No. 11 ..	6,022	3,022	2,300 .....		

Mines in 1903, 0.

Mines in 1904, 1.

*Christian County—Fourth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	10,477	\$227,560	180	97	277	140,460	41,990	15,965	10,477	220	208,892	1
	3,127	204,164	130	74	204	175,825	.....	9,159	3,127	264	135,464	2
	27,203	151,379	160	75	235	125,960	9,217	12,109	3,981	170	149,159	3
	14,102	99,683	138	72	210	106,677	.....	.....	7,300	125	113,977	4
	18,832	85,242	115	62	177	59,918	26,830	8,805	12,900	118	110,513	5
	.....	119,343	100	71	171	101,435	.....	2,112	6,956	192	110,303	6
	9,263	145,399	129	62	191	76,483	.....	10,888	9,163	250	96,534	7
	.....	3,772	8	3	11	.....	.....	1,965	521	90	1,886	8
	83,024	\$1,039,522	960	516	1,476	786,758	80,037	60,403	59,487	188	926,928	

RE—Price paid for hand mining for seven shipping mines from July 1, 1903 to April 1, 1904, \$0.52; one shipping mine from July 1, 1903 to April 1, 1904, \$0.52; average price for year, \$0.527 per ton; average price paid for machine mining, shipping mines, \$0.368 per ton.

*Edgar County—Fourth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	700	\$7,753	9	4	13	.....	.....	5,322	700	230	6,022	1

RE—Price paid for hand mining, \$0.55.

*Logan County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Latham Coal Co., north mine.....	Lincoln.....	230,099	180,000	20,000	2,000	3,000
2	Citizens' Coal Min. Co., E. shaft.....	Lincoln.....	105,880	39,647	43,762	.....	6,230
3	Lincoln Coal Co., No. 1.....	Lincoln.....	71,174	71,174	.....	.....	.....
4	Home Coal Co.....	Mt. Pulaski...	11,851	.....	7,111	1,185	1,185
Totals .....			419,004	290,821	70,873	3,185	10,594

Mines in 1903, 4.

Mines in 1904, 4.

*Macon County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Decatur Coal Co. ....	Niantic .....	39,929	2,866	28,661	.....	5,715
2	Decatur Coal Co., No. 1 .....	Decatur .....	39,445	9,150	23,640	.....	3,659
3	Manufacturers & Con. C. Co., No. 1 .....	Decatur .....	28,824	10,167	10,672	1,471	.....
Totals .....			106,198	21,683	62,973	1,471	8,765
LOCAL MINE.							
1	Decatur Coal Co., No. 2. ....	Decatur .....	45,136	8,060	28,056	.....	4,800
Total—4 mines .....			151,334	29,743	91,029	1,471	13,665

Mines in 1903, 3.

New mines, 1.

Mines in 1904, 4.

*Logan County—Fourth District—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1,000	4,000	\$181,834	200	100	300	206,099	.....	11,000	13,000	228	230,099	1
1,021	1,200	112,235	100	53	153	62,333	21,616	13,639	8,292	212	105,880	2
.....	.....	76,868	95	54	149	58,274	1,800	7,000	4,100	115	71,174	3
1,790	1,580	20,285	25	13	38	1,541	.....	8,636	1,674	220	11,851	4
1,811	6,780	\$391,222	420	220	640	328,247	23,416	40,275	27,066	194	419,004	

NOTE.—Price paid for hand mining two mines, from July 1, 1903, to April 1, 1904, \$0.59; from May 1, 1904, to July 1, 1904, \$0.56; the other two mines paid for the year \$0.59 and \$0.74½. Average price for year, \$0.5883.

*Macon County—Fourth District—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
1,157	.....	\$52,939	35	16	51	32,391	.....	7,538	.....	220	39,929	1
1,605	.....	76,661	53	32	87	20,000	.....	19,445	.....	240	39,445	2
1,514	.....	49,454	30	13	43	524	.....	23,800	2,500	288	10,268	3
1,306	.....	\$179,054	120	61	181	52,915	.....	50,783	2,500	249	89,642	
1,130	.....	\$87,870	70	35	105	.....	.....	45,136	.....	250	45,136	1
1,136	.....	\$266,924	190	96	286	52,915	.....	95,919	2,500	250	134,778	

NOTE.—Average price paid for hand mining, shipping mines, \$0.645; 10,268 tons mined by machine mining, \$0.54, price paid for hand mining, local mines, \$0.70 per ton.

*McLean County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MIN				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	McLean County Coal Co. No. 1..	Bloomington .	150,000	15,000	100,000	4,000	8,000
2	Colfax Coal Co., No. 1.....	Colfax.....	42,988	16,639	11,448	4,705	.....
3	Consumers' Coal Co., No. 1.....	Chenoa.....	20,000	3,000	8,000	.....	4,000
4	Colfax Cooperative Co., No. 1....	Colfax.....	5,174	4,334	620	.....	.....
Totals.....			218,140	38,973	120,068	8,705	12,000

Mines in 1903—3.

New mines—1.

Mines in 1904—4.

*McLean County—Fourth District—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
600	7,000	\$219,500	200	93	293	30,000	35,000	60,000	25,000	275	150,000	1
174	.....	56,852	64	28	92	30,099	6,859	4,069	1,929	250	42,966	2
600	.....	31,800	20	12	32	4,500	.....	14,000	1,500	250	20,000	3
220	.....	6,952	.....	.....	.....	3,183	1,161	620	210	.....	5,174	4
394	7,000	\$315,104	284	133	417	67,782	43,020	78,689	28,649	258	218,140	

NOTE—Price paid for hand mining, McLean County Coal Co., from July 1, 1903 to April 1, 1904, \$0.87; from April 1, 1904 to July 1, 1904, \$0.84, lower seam. From July 1, 1903 to April 1, 1904, \$0.77; from April 1, 1904 to July 1, 1904, \$0.74, upper seam. These prices not considered making average price for county.

Colfax Coal Co., and Colfax Cooperative Coal Co.—From July 1, 1903 to April 1, 1904, \$0.87; from April 1, 1904 to July 1, 1904, \$0.56. Consumers Coal Co., \$0.67. Average price hand mining, \$0.6096 per ton.



*Shelby County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Moweaqua C. M. & Mfg. Co. No. 1	Moweaqua .....	109,192	21,717	40,467	14,231	10,322
2	Century Coal Co., No. 1	Tower Hill....	10,000	10,000	.....	.....	.....
Totals.....			119,192	31,717	40,467	14,231	10,322
LOCAL MINES.							
1	Widick Bros., No. 1	Findlay .....	5,231	.....	2,801	.....	2,430
2	John Anglin, No. 1	Shelbyville....	2,800	.....	2,800	.....	.....
3	B. F. Stretch, No. 1	Shelbyville....	2,040	2,040	.....	.....	.....
4	Brophy Bros., No. 1	Shelbyville....	1,320	1,320	.....	.....	.....
5	W. F. Gallagher, No. 1	Mode .....	800	.....	800	.....	.....
6	Tinney Bros., No. 1	Shelbyville....	700	700	.....	.....	.....
7	M. R. Williams, No. 1	Shelbyville....	200	200	.....	.....	.....
8	J. A. Bowman, No. 1	Shelbyville....	80	80	.....	.....	.....
9	Charles Michalis	Fancher .....	50	.....	50	.....	.....
Totals.....			13,221	4,340	6,451	.....	2,430
Totals—11 mines .....			132,413	36,057	46,918	14,231	12,752

Mines in 1903—8.  
 New mines—3.  
 Mines in 1904—11.

*Shelby County—Fourth District—Concluded.*

TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
8,837	12,358	\$146,872	125	57	182	71,654	20,724	10,592	6,222	225	88,470	1
.....	.....	15,000	15	14	29	3,000	.....	5,000	2,000	170	10,000	2
8,837	12,358	\$161,872	140	71	211	74,654	20,724	15,592	8,222	198	98,470	
.....	.....	\$12,563	16	1	17	.....	.....	5,191	40	160	5,231	1
.....	.....	7,700	16	2	18	.....	.....	2,800	.....	180	2,800	2
.....	.....	5,610	8	1	9	.....	.....	2,000	40	275	2,040	3
.....	.....	3,630	8	1	9	.....	.....	1,317	3	250	1,320	4
.....	.....	1,800	8	1	9	.....	.....	800	.....	200	800	5
.....	.....	1,750	6	3	9	.....	.....	675	25	140	700	6
.....	.....	540	8	1	9	.....	.....	200	.....	135	200	7
.....	.....	220	4	1	5	.....	.....	80	.....	30	80	8
.....	.....	112	1	.....	1	.....	.....	50	.....	50	50	9
.....	.....	\$33,925	75	11	86	.....	.....	13,113	108	191	13,221	
8,837	12,358	\$195,797	215	82	297	74,654	20,724	28,705	8,330	.....	132,413	

NOTE—Price paid for hand mining shipping mines, from July 1, 1903, to April 1, 1904, \$0.56; from April 1, 1904, to July 1, 1904, \$0.56. Average price for year \$0.5825.  
 Ten thousand tons, mined by the day.  
 Price paid for machine mining, shipping mines, from July 1, 1903 to April 1, 1904, \$0.52; from April 1, 1904 to July 1, 1904, \$0.49%. Average price for year \$0.514 per ton.  
 Average price paid for hand mining, local mines, for year \$1.59.

*Vermilion County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine run.	Lump.	Egg.
SHIPPING MINES.						
1	Kellyville Coal Co., No. 3 .....	Westville	442,028	442,028		
2	Westville Coal Co., No. 1 .....	Westville	358,042	318,042	20,000	
3	Kellyville Coal Co., Himrod .....	Himrod	348,047	348,047		
4	Kellyville Coal Co., No. 4 .....	Westville	339,810	339,810		
5	Kellyville Coal Co., No. 2 .....	Kellyville	336,330	336,330		
6	Kellyville Coal Co., Pawnee .....	Westville	267,742	4,937	111,407	35,74
7	Kellyville Coal Co., No. 5 .....	Westville	265,255	265,255		
8	Jones & Adams Co., No. 2 .....	Catlin	135,671	26,192	82,946	
9	Economy Coal M. Co., Economy .....	Danville	103,068	103,068		
10	Consolidated Coal Co., Fairmount .....	Fairmount	94,118	14,010	65,050	
11	John O'Connell C. Co., Bluebird .....	Danville	54,893	50,255	2,562	
12	Electric Coal Co., Electric .....	Danville	51,384	49,384		
13	Cons. Coal Co., Missionfield .....	Missionfield	30,285	29,680		
14	Mauck Bros., Mauck .....	D'nville.R.R.J	22,333	2,333	11,000	
15	Westville Coal Co., No. 2 .....	Westville	20,000	20,000		
16	C. C. White, Brookside .....	Grape Creek	18,513	18,513		
17	Oakwook C. Co., Oakwood mine. ....	Oakwood	11,000	2,000	7,000	
18	E. S. Gray, No. 4 .....	Oakwood	10,000	10,000		
19	F. W. Davis, Muncie .....	Muncie	6,000	6,000		
20	Bunting Bros., Bunting .....	Grape Creek	11,897	1,111	6,312	
21	Star Coal Co., No. 1 .....	Vandercook	9,500	9,500		
22	Geo. W. Fenwick .....	Danville	1,700	500	1,000	
23	Blue & Hall .....	Grape Creek	1,140	1,140		
24	Young & Ellis .....	Danville	557	3	276	
Totals .....			2,937,313	2,398,438	307,553	35,74

*Vermilion County—Fourth District—Continued.*

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	\$433,188	310	147	457	428,026	6,002		8,000	253	442,028	1
	350,781	300	136	436	348,480		3,562	4,000	275	356,042	2
	341,086	290	145	435	343,047			5,000	230	324,047	3
	333,014	260	60	320	336,810			3,000	235	339,810	4
	329,604	220	131	351	316,450		13,880	6,000	250	336,330	5
16,003	278,342	205	97	302	251,739			16,003	255	267,742	6
	259,950	225	64	289	263,055			2,200	277	265,255	7
	160,984	165	82	247	130,648		652	4,371	225	135,671	8
	133,989	100	55	155	77,600	23,280		2,188	242	103,068	9
	103,585	70	37	107	88,264		2,620	3,234	171	94,118	10
	62,055	81	40	121	52,845		1,482	566	193	54,893	11
2,000	62,230	75	15	90	49,384			2,000	300	51,384	12
305	32,754		90	90	27,603			2,682	88		13
	25,666	18	6	24	11,200		10,833	300	225	22,333	14
	20,000	50	19	69	19,700			300	80	20,000	15
	17,588	16	4	20	18,353		100	80	152	18,513	16
1,000	13,650	10	4	14	9,000		2,000		200	11,000	17
	10,500	10	4	14	10,000				200	10,000	18
	6,600	23	11	34	2,000		3,700	300	180	6,000	19
	12,811	13	7	20	6,011		5,886		230	11,897	20
	11,875	20	4	24	9,500				175	9,500	21
	2,060	1	3	3	300		1,350	50	184	1,700	22
	1,197			2	1,040		100		150	1,140	23
40	796	12	1	3	40		517		120	557	24
19,348	\$3,004,245	2,467	1,160	3,627	2,801,075	29,282	46,682	60,274	215	2,883,028	

RE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, 52 cents; from April 1, 1904, to July 1, 1904, 52 cents.

Price paid for machine mining, shipping mines: From July 1, 1903, to April 1, 1904, 48 cents; from April 1, 1904, to July 1, 1904, 45 cents.

Average price for year, \$0.5425 per ton.  
Average price for year, \$0.4725 per ton.

## Vermilion County—Fourth District—Continued.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	E. S. Gray, No. 3	Danville	48,000	48,000			
2	Western Brick Co	Danville	22,265	22,265			
3	Stansbury & Watkins, Stansbury & Watkins	Danville	12,600		8,400		
4	S. Parle, No. 2	Danville	12,000	6,000	3,000		
5	D. A. Jenkins	S. Danville	10,670		5,890		
6	Carter Bros., Carter's	D'nville, R.R. 8	5,800	1,400	3,300		
7	Danville Brick & Tile Co	Danville	5,000	5,000			
8	France Bros., France's	Fairmount	5,000		4,000		500
9	W. C. Shafer, Shafer	Danville	4,640	200	2,300	640	200
10	Joe Mauck, J. Mauck's	Danville	3,985	3,985			
11	Miller & Spangler, Batestown shaft	D'nville, R.R. 1	3,827	3,827			
12	A. Jones & Son, No. 1	Catlin	3,541	237	2,137		616
13	James Thomas, No. 1	S. Danville	3,500	3,500			
14	M. C. Wilkinson, No. 1	S. Danville	3,500		2,500		500
15	Morin & Mobaker, No. 1	D'nville, R.R. 2	2,855		1,790		
16	John R. Colburn, Klondike	Vandercook	2,618	865	1,283		260
17	Hardy Harris Coal Co., No. 3	Fairmount	2,500		2,000		250
18	John Bryant, Bryant's	Grape Creek	2,400		1,800		
19	S. M. Hodge & Son, Hodge's	Danville	2,000	500	900		
20	A. H. Bonnett, Bonnett's	Collison, R.R. 1	2,000		1,500		500
21	L. S. Miller, Strip bank	Grape Creek	1,900		1,700		
22	Joe Baler, Baler's	Danville	1,800		1,000		200
23	J. A. Humme, Humme's	D'nville, R.R. 1	1,650		1,500		100
24	William Stine, Stine's	Danville	1,588	1,588			
25	W. A. Shepherd, Shepherd's	Catlin	1,500		1,200		100
26	John Alldredge, Alldredge	Danville	1,400		1,000		250
27	Cantrall & Beeler, No. 1	D'nville, R.R. 1	1,300		1,000		100
28	Kurd & Webster, No. 1	Danville	1,026	154	452		205
29	Fred Brennerman, No. 1	Danville	875	25	400		50
30	Henry J. Dettman, Strip bank	Danville	800	560	300		
31	M. A. Fredrickson, Strip bank	Danville	800		400		250
32	Samuel Thomas & Bro., Slope	Catlin	800		500		200
33	Jacob Thompson, No. 2	Grape Creek	750		600		
34	C. S. Bryant, No. 1	Grape Creek	525		400		
35	Garrets & Co., Strip	Georgetown	502	472			
36	John Swenson, No. 1	Danville	360	360			
37	John Woodward, Woodward's	Oakwood	150		100		50
38	L. E. Baker, Baker's	Oakwood	200		200		
39	Wilkerson & Bro., No. 1	Grape Creek	60		40		
Totals			176,747	98,938	51,592	640	4,331
Total—63 mines			3,114,060	2,497,376	359,145	36,385	31,120

Mines in 1903, 60.

New mines, 5.

Abandoned 2.

Mines in 1904, 63.

## Vermilion County—Fourth District—Concluded.

s.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$50,400	40	10	50			48,000		200	48,000	1
		23,378	25		25				22,265		22,265	2
		19,320	18	4	22			12,600		200	12,600	3
		14,700	10	4	14			11,800	200		12,000	4
		14,243	16	6	22			10,670		280	10,670	5
		8,210	7	1	8			5,800		207	5,800	6
		5,000			5				5,000		5,000	7
	400	7,565			10			4,500	500		5,000	8
		6,574	3	3	6			4,640		150	4,640	9
		4,981	8	3	11			3,985		100	3,985	10
		4,784	4	4	8			3,827		128	3,827	11
	145	5,206	3	2	5			3,396	145	250	3,541	12
		3,500	3	4	7			3,500		275	3,500	13
	500	5,275	4	3	7			3,000	500	200	3,500	14
	1,065	3,558	4		4			2,853		182	2,855	15
		3,355			3			2,618		110	2,618	16
		3,875	5	3	8			2,500		300	2,500	17
	600	2,400	3		3			1,800	600	200	2,400	18
		2,805	4		6			2,000		150	2,000	19
		2,875	10	5	15			2,000		150	2,000	20
	200	2,175	4		4			1,900		100	1,900	21
		2,950			2			1,800		200	1,800	22
	50	2,775	3	1	4			1,650		180	1,650	23
		1,588	2		3			1,588		160	1,588	24
	200	1,950	3	2	4			1,300	200	200	1,500	25
		2,130	3	1	4			1,400		150	1,400	26
		2,025	5	4	9			1,300		150	1,300	27
		1,516	4	2	6			1,026		150	1,026	28
		1,012	3	1	4			875		150	875	29
		1,309	2		2			860		150	860	30
	150	1,113	2		2			800		100	800	31
		875	2		2			800		125	800	32
	150	788	3		2			600	150	180	750	33
	125	525	3	1	4			525		150	525	34
	30	596	3		3			472	30	100	502	35
		540	2		2			360		90	360	36
		237	2	1	3			150		60	150	37
		250	2		2			200		60	200	38
	20	65	2		2			60		40	60	39
	3,635	\$216,403	232	70	302			147,157	29,590	175	176,747	
	22,983	\$3,220,648	2,699	1,230	3,929	2,801,075	29,282	193,839	89,864		3,059,775	

E.—Average price paid for hand mining, local mines, for the year, \$0.551 per ton.  
 tons mined by the day.

*Woodford County—Fourth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINE.							
1	Roanoke Coal Mining Co., No. 1.	Roanoke .....	115,128	17,441	83,200	.....	1,085
	Totals .....	.....	115,128	17,441	83,200	.....	1,085

Mines in 1903, 1.

Mines in 1904, 1.

*Woodford County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
5,252	8,150	\$153,595	190	45	235	93,122	6,297	8,459	7,250	252	115,128	1
5,252	8,150	\$153,595	190	45	235	93,122	6,297	8,459	7,250	252	115,128	

NOTE.—Price paid for hand mining: From July 1, 1904, to April 1, 1904, 82 cents; from April 1, 1904, to July 1, 1904, 79 cents.  
Average price for year, \$0.8125 per ton.



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian .....	8	986,685	382,616	318,748	13,876	75,686	112,735	83,024	\$1,009,322
Logan .....	4	419,004	290,821	70,873	3,185	10,534	36,811	6,780	391,222
Macon .....	3	106,198	21,683	62,973	1,471	8,765	11,306	.....	179,054
McLean .....	4	218,140	88,973	120,068	8,705	12,000	31,394	7,000	315,104
Shelby .....	2	119,192	31,717	40,467	14,231	10,582	9,837	12,358	161,672
Vermilion .....	24	2,937,313	2,398,438	307,553	35,745	26,789	149,440	19,348	3,004,246
Woodford .....	1	115,128	17,441	83,200	.....	1,085	5,252	8,150	153,565
Totals and averages	46	4,901,660	3,181,689	1,003,882	77,213	145,441	356,775	136,660	\$5,244,615

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Edgar .....	1	6,022	3,022	2,300	.....	.....	.....	700	\$ 7,733
Macon .....	1	45,136	8,060	28,056	.....	4,890	4,130	.....	87,670
Shelby .....	9	13,221	4,340	6,451	.....	2,430	.....	.....	33,925
Vermilion .....	39	176,747	98,988	51,592	640	4,331	17,611	3,635	216,408
Totals and averages	50	241,126	114,360	88,399	640	11,651	21,741	4,335	\$345,951
Totals, district— all mines .....	96	5,142,786	3,296,049	1,092,281	77,853	157,092	378,516	140,995	\$5,590,966

Whole number of mines reported in 1903, 87.

Number of new mines opened during year, 11.

Number of mines exhausted or abandoned during the year, 2.

Whole number of mines reported for 1904, 96.

*urth District—1904—Shipping Mines.*

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
30	516	1,476	786,758	80,037	60,403	59,487	188	926,928	59,757	\$0.560	\$0.367	37	7
30	220	640	328,247	23,416	40,275	27,066	194	419,004	.....	0.588	.....	22	4
30	61	181	52,915	.....	50,783	2,500	249	89,642	16,556	0.645	.....	11	1
34	133	417	67,782	43,020	78,689	28,649	258	218,140	.....	0.610	.....	16	3
10	71	211	74,654	20,724	15,592	8,222	198	98,470	20,722	0.582	0.514	6	1
17	1,160	3,627	2,801,075	29,282	46,682	60,274	215	2,883,028	54,285	0.542	0.472	59	20
30	45	235	93,122	6,297	8,459	7,250	252	115,128	.....	0.812	.....	5	1
11	2,206	6,787	4,204,553	202,776	300,883	193,448	214	4,750,340	151,320	\$0.561	\$0.444	156	37

*urth District—1904—Local Mines.*

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
9	4	13	.....	.....	5,322	700	230	6,022	.....	\$0.55	.....	1	1
70	35	105	.....	.....	45,136	.....	250	45,136	.....	0.70	.....	4	...
75	11	86	.....	.....	13,113	108	191	13,221	.....	1.59	.....	2	2
32	70	302	.....	.....	147,157	29,590	175	176,747	.....	0.551	.....	9	3
86	120	506	.....	.....	210,728	30,398	181	241,126	.....	\$0.637	.....	16	6
67	2,326	7,293	4,204,553	202,276	511,611	223,846	.....	4,991,466	151,320	.....	.....	172	43

## FIFTH INSPECTION DISTRICT—1904.

### TWENTY-FIRST ANNUAL REPORT.

Counties—Brown, Calhoun, Greene, Jersey, Macoupin, Montgomery, Morgan,  
Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DANID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with the statute of the State, defining the duties of the State Inspectors of coal mines, I herewith submit the twenty-first annual coal report of the coal mines in the fifth inspection district, for the year ending June 30, 1904. A tabular statement is herewith given of the statistics of each county, showing the number of mines operated during the year, both shipping and local; the new and abandoned mines; the depth of coal below the surface with the geological number and thickness of the various coal seams; the number of miners and other employes working in the mines and on the surface; the total tonnage of all grades of coal; the average value of coal at the mines, and the aggregate value of the total product in the district, with the casualties in and around the mines, both fatal and non-fatal.

The following summary is given as a recapitulation of the principal facts found in the schedules of the various counties:

Numbr of mines.....	202
Number of new mines.....	14
Number of abandoned mines.....	13
Number of shipping mines.....	13
Number of local mines.....	8
Total output in tons (2,000 pounds).....	7,280,397
Tons of mine run coal.....	1,714,000
Tons of lump coal.....	3,555,451
Tons of egg coal.....	113,424
Tons of nut coal.....	229,322
Tons of screenings (pea coal).....	1,478,977
Tons of slack or duff.....	200,772
Average value of mine run coal at shipping mines.....	\$1.07
Average value of lump coal at shipping mines.....	\$1.25
Average value of egg coal at shipping mines.....	\$1.25
Average value of nut coal at shipping mines.....	\$1.25
Average value of screenings at shipping mines.....	\$0.85
Average value of waste coal at shipping mines.....	\$0.45
Aggregate value of total product, all mines.....	\$7,394,183
Number of miners.....	4,389
Number of others underground.....	1,383
Boys underground.....	28
Employes above ground.....	3,181
Total number of employes.....	6,299
Tons loaded on cars for shipment.....	197,397
Tons supplied to locomotives at mines.....	625,181
Tons sold to local trade.....	208
Tons consumed or wasted at the mines.....	1,403
Average number of days in operation, shipping mines.....	140.7
Tons mined by hand.....	1,403
Tons mined by machines.....	1,403

f mines using coal cutting machines.....	16
f machines in use.....	156
f machines operated by compressed air.....	120
f machines operated by electricity.....	36
f fatal accidents.....	27
f non-fatal accidents.....	56
f tons mined to each fatal accident.....	269,640
f tons mined to each non-fatal accident.....	190,005
f boilers (horizontal) at the mines.....	219
f kegs of powder used in blasting coal.....	213,490
f kegs used for other purposes.....	55
f pounds of dynamite used at the mines.....	19,124
f mines using electric haulage.....	9
f mines using cable haulage.....	5
f electric motors in use.....	15

roduction, by counties, in the fifth district, with the increase or decrease for the years ending June 30, 1903, and June 30, 1904, is shown following table:

COUNTIES.	TOTAL OUTPUT IN TONS.		Increase.	Decrease.
	1903.	1904.		
.....	1,585	1,583	.....	2
.....	4,928	3,110	.....	1,818
.....	4,497	10,904	6,407	.....
.....	2,790	3,405	615	.....
.....	2,223,055	2,221,474	.....	1,581
ery.....	420,312	494,501	74,189	.....
.....	3,840	4,300	460	.....
.....	4,386,526	4,516,353	129,832	.....
.....	23,370	24,652	1,282	.....
.....	7,070,903	7,280,287	12,785	3,401

Total net increase..... 209,384 tons.

strict shows a net increase of 209,384 tons, which is largely due to on and Montgomery counties. Montgomery county shows an increase tons; Sangamon county an increase of 129,832 tons. Green, Jersey, and Scott each show a slight increase. Macoupin county shows a of 1,581 tons. The coal business has been very dull since April 1, any of the mines in the three counties, shipping coal, have only one day in the week.

#### NEW MINES.

; the year there have been nine new mines opened in this district, these are shipping mines; four in Macoupin county, and three in San-

eboddy Mining Co., Chicago, has opened out a new mine two miles Sherman, Sangamon county, on the line of the C. & A. railroad. The is six feet in thickness and is No. 5 of the general section. The ft is 10x20 feet in the clear and 201 feet deep; the air shaft is 10x15 e clear, and of the same depth. Five feet of the air shaft is parti- of one end for a stairway and escapement, leaving 100 square feet ion for air shaft. The tower and all screens and weigh house bear- built of steel, covered with galvanized corrugated iron. are two shaking screens and a weigh pan, also dump cages. The engine is double cylinder first motion; each cylinder is 22 inches in and 36 inches stroke; with a steel cone winding drum five and a half

to seven feet in diameter. There are four steam boilers, each with a capacity of 150 horse-power; each boiler is eight feet in diameter, and 17 feet long, with 72 four-inch flues.

The smoke stack is made of three-eighth inch steel and is 100 feet high; the engine and boiler houses are large and well arranged. They are built of brick with fire proof roofs supported by trusses; the floor of the boiler room is made of paving brick, and that of the engine room is concrete.

The ventilating fan is a Capell, 13½ feet in diameter and seven and a half feet wide; its full capacity (without mine resistance) is reported to be 350,000 cubic feet of air per minute; the fan house is built of fire proof material.

A No. 1 high speed engine of 50 horse-power is geared direct to a 50 horse-power generator, giving electric light to the premises, and entries in the mine; ten arc lights are used on the surface. The office building at the mine is built of brick, 30x56 feet, and contains a fire proof vault 8x10 feet, a bath room is also connected with the office. All the company buildings on the premises are heated by steam and supplied with hot and cold water.

A hotel and other dwellings are erected near the mine; everything around the mine on the surface is put up very substantial and intended to be fire proof.

To handle the coal output economically, ample side tracks are provided and suitable scales are erected. The underground works are laid out on the most improved plan, and it is expected that the mine when it is opened out to its full capacity, will maintain an output of 2,000 tons per day.

The Chicago-Springfield Coal Co. has opened out a new mine on the line of the C. & A. railroad, two and one half miles north of the corporate limits of the village of Ridgley, Sangamon county; the plant is first-class in every particular. The hoisting and air shafts are each 22½ feet deep. The coal seam is No. 5 of the general section, and is six feet thick.

The hoisting shaft is 8x10 feet in the clear and the air shaft is 8x20 feet; five feet of the air shaft is taken off of one end for a stairway and escape ment.

The tower posts and screen bearing posts and flooring are all of hard pine; the screen housing and tower is covered with corrugated iron; the tower is 107 feet high.

The boiler house is built of brick with fire-proof roof, and concrete floor; only two boilers have been installed at this time, others will be put in when required; each boiler is 72 inches in diameter, and 18 feet long, with 64 four-inch flues; the boilers are connected by britching to a brick stack, 10x10 feet square at the base, and 100 feet high. The engine house is also built of brick, with a fire proof roof; the hoisting engine is double first motion, each cylinder is 20x36 inches with a straight drum six feet in diameter. The head sheaves are seven feet in diameter. Air signals are used in the hoisting shaft; dump cages, weigh pans, and shaker screens are used; the shaking screens are seven feet wide and 42 feet long. There are four track scales, one on each loading track, each scale is 80 feet long; the side tracks are double on the north, and 3,800 feet in length, three tracks are on the south, 2,800 feet in length.

The fan at the air shaft is 22 feet in diameter and six feet wide, operated by an engine 12x28 inches, geared direct; the fanhouse is built of brick, and is intended to be fire proof. The washhouse provided is also built of brick, here the miners can change their clothes and wash after coming from the mine; the washhouse is ten feet wide and 60 feet long, properly drained, both hot and cold water are supplied.

A town site will soon be located, ten houses, with a hotel, have already been erected. The underground works are laid out on the most modern plan, and the coal will be worked on what is known as the panel system.

The office building at the mine is built of brick and is fire proof. The U. S. dial scale is used for weighing the miner's coal. When properly opened out this mine will have a large output.

The Tuxhorn Coal Co., Springfield, has opened out a new mine at Kays, Sangamon county, on the C. H. & D. railroad, three miles east of the corporate limits of the city of Springfield. The main shaft is 220 feet deep, 8½x14½ feet in the clear; the air shaft is 22½ feet deep and 8½x14 feet in the clear; 10 feet is taken off of one end of the latter for a stairway and escapement.

over and screen posts are hard pine, covered with corrugated iron; the tower is 66 feet high to the center of the head sheaves. The boiler and houses are built of brick, with fire proof roofing; the buildings are ; there are four boilers, each 48 inches in diameter by 30 feet long (cylinder boilers), with an 80-foot smoke stack.

Hoisting engine is double cylinder, first motion; each cylinder is 20 inches in diameter, with a 36-inch stroke; the drum is straight and five feet in diameter. Dump cages with pan and shaker screens are used. The track is 6 feet long with ample side-tracks. The coal seam is No. five of the general section and is five feet nine inches thick at the bottom of the shaft. Hoisting fan is 15 feet in diameter within a brick fan house; the fan is geared direct to the fan shaft. The mine sump is made near the foot of the air shaft and the water is pumped up this shaft.

Complete details of this plant are well laid out, both on the surface and underground. The coal will be worked on the panel system and the mine, fully developed, will have a large output.

Chicago Colliery Co., Chicago, has opened out a new mine two miles from the corporate limits of Virden, Macoupin county. The mine is connected by a spur of the C. B. & Q. railroad. The main shaft is 302 feet deep, 16 feet in the clear. The coal seam is No. five of the general section, seven and one-half feet thick. The air shaft is 8x16 feet with five feet in clear at one end for a stairway and escapement. The tower is built of steel, 98 feet high, covered with corrugated iron. The boiler and houses are built of brick, with fire proof roofing. There are only two boilers at present; two more will be put in when required. Those in place are 84 inches in diameter and 18 feet long, with 72 four-inch flues; boiler is rated at 140 horse power. The smoke stack is 80 feet high. The hoisting engine is first motion, double cylinder, each cylinder 24x36 inches and was built by the Litchfield Car & Machine company, Litchfield, Mo.

The shaking screens are eight feet wide by 42 feet long with dump cages and weigh pan, put in by Duncan Bros., Alton, Ill. The underground is laid out on the panel system and designed for a large output.

Land Grove Coal company, Old Berlin, Sangamon county, near the track of the Wabash railroad. The shaft is 185 feet deep; the coal seam is five feet and six inches thick. Very little mining has been done so far. This will be a local mine some time. The company intends to have a spur run connecting the mine with the railroad.

Superior Coal company, Gillespie, has opened up two new mines in Macoupin county, designated as Nos. 1 and 2. Mine No. 1 is two miles south of Gillespie and No. 2 is three and one-half miles south. Railroad connections are made to these mines by a branch road, known as the Macoupin railroad, connecting at Greenridge with the C. & A. railroad, thence passing the C. C. C & St. L. railroad at Gillespie and to the mines.

The shaft is 348 feet deep and 9x17 feet in the clear, with two cageways and chambers. The cageways are each seven feet wide; the pipe chambers four inches wide. The seam of coal is eight feet thick and No. five of the general section, being equivalent to Mt. Olive and Staunton coal.

The tower is built of steel; the compressor, dynamo, engine and houses are built of brick with slate roof; there are six boilers, each 60 inches in diameter, by 18 feet long, with 60 four-inch flues, each rated at 100 horse power. The hoisting engine is double first motion; each cylinder 24x36 inches with a seven foot straight drum; the ropes are one and three-eighths inches in diameter; dump cages are used for hoisting; the screens are stationary. The coal from the mines will be consumed by the Chicago & North-Western railroad. The fan is 16 feet in diameter and five and one-half feet in diameter; the fan house is fire proof. The underground is laid out on the improved plan. The coal will be mined and worked on the panel system. Fifteen miners' houses have been built at No. 1 mine and No. 2. The No. 1 is a duplicate of the No. 2 mine.

Coal at these mines will be mined by the Ingersoll-Sergeant coal cutting machines. A large Ingersoll compound compressor has been installed at the mine and air signals will be used. The towers and out-housing around

both shafts are all built of steel; ample side-tracks and scales have been put in. The company owns an extensive royalty of coal lands with a suitable tract of surface land at each mine and has plans now under way for sinking No. 3 mine. These mines in the future will have a large output when properly opened out.

The Kortkamp Coal company, Hillsboro, has sunk a new shaft two miles east of Hillsboro, Montgomery county, on the line of the C. C. C. & St. L. railroad, also connecting with the Frisco line to Chicago. The shaft is 500 feet deep, 8x15 feet in the clear; the tower is built of wood covered with corrugated iron. The boiler and engine house is built of brick, with fire proof roofing; only one boiler is placed at present, others will be put in as required. The boiler now in place is 72 inches in diameter by 18 feet long, having 70 four-inch flues; the hoisting engines are built with first motion, double cylinder, each 24x36 inches. Coal has not been shipped from the mine, as the shaft is only sunk through the coal. The air shaft is not yet finished; shaking screens and dump cages have been installed. A town site has been laid out and 18 houses have already been built. The coal seam is No. 5 and is seven and one-half feet thick.

The Consolidated Coal Co. of St. Louis, Mo., has opened out a new coal mine one and one-half miles west of Staunton, Macoupin county. This mine will be known as No. 14; connected with the mine will be a spur switch from the Wabash railroad. The main or hoisting shaft is 8 feet 10 inches by 15 feet 6 inches in the clear, and is 284 feet deep; the air shaft is of the same size, with five feet taken from one end for a stairway and escapement. The tower frames are of wood, covered with galvanized iron. The boiler, compressor, dynamo and engine houses are built of brick with fire proof roofing; there are four boilers, each 72 inches in diameter and 18 feet long. Each boiler is rated at 163 horse power. The hoisting engines are double first motion, each cylinder 24 inches in diameter with 36 inches stroke. An Ingersoll-Sergeant compressor has been put in, steam cylinder 18x24 inches. Dump cages and shaker screens have been put in. A large washery has been built with a Smith box-car loader. The coal seam is No. 5 of the general section, and is seven feet thick. The underground works are laid out with a view of having a large output when the mine is fully developed.

#### IMPROVEMENTS.

The Springfield Coal Mining Co. has built a brick blacksmith shop and office at its No. 3 mine at Starns, and has put in a new hoisting engine, double cylinder, first motion 20x36 inches. At its No. 4 mine, Black Diamond, a new tower has been erected, also screens and outhouses; a new fan 20 feet in diameter has been put in to take the place of the one destroyed by fire Sept. 27, 1903. The company has also put in a first motion engine, double cylinder 20x36 inches; two new dump cages and shaker screens. New track scales have been put in at the No. 5 mine (Iles Junction), also two new track scales at the No. 2 shaft at Riverton.

The Williamsville Coal company, Selbytown, has put in dump cages and screens; retimbered a portion of the hoisting shaft, improved the tower, and built a new stairway in the escapement shaft.

The West End Coal Co., Springfield, has put in a first motion engine, double cylinder 20x36 inches, and relaid the mine tracks with 35-pound rails, with a view of putting in an electric haulage motor in the near future.

The Chicago-Virden Coal Co. has retimbered a portion of its No. 2 mine at Auburn; also rebuilt a portion of the tower of that mine.

The Virden Coal Co. has put in a tight partition in their air shaft, with suitable doors at the top and bottom of the shaft to keep ice from the stairway in winter.

The Wilmington and Springfield Coal Co., Springfield, has installed a 30-foot fan at its air shaft, located about one mile east of hoisting shaft. The fan is run by an electric motor, power being supplied from a generator located in the Springfield Iron Co.'s plant.

The Consolidated Coal Co. of St. Louis, Mo., has made several improvements at its No. 7 mine, at Staunton, Macoupin county. A new tower has been

a tipple-house built, with self-dumping cages and shaker screens; feet in diameter has been put in. The mine tracks have been 30-pound rails. It is intended to introduce mechanical haulage. se power boilers have been installed.

pany's No. 8 mine, Mount Olive, Macoupin county, a new tower lt, also a tipple-house with shaker screens and dump cages; three each 72 inches in diameter by 18 feet long, rated at 150-horse been put in. The mine tracks have been relaid with 30-pound C. W. generator has been installed with two ten-ton electric ine haulage.

10 mine, Mount Olive, five new boilers have been put in, each ches in diameter by 18 feet long, rated at 150-horse power. A compressor has also been installed, a steam cylinder 24 inches in igh pressure cylinder 16½ inches in diameter, and a lower pres- : 26 inches in diameter.

boro Coal Co., Hillsboro, Montgomery county, has put in dump aking screens. The tower has also been improved. factors' Fuel Co., Nilwood, Macoupin county, has put in a new

#### CHANGES IN CORPORATE NAMES.

ine at Ridgely, Sangamon county, formerly operated by the Re- ind Steel Co., has changed and is now known as the Wilmington i Coal Co.

er Coal & Coke Co., Nilwood, Macoupin county, has been changed factors Fuel Co.

ond Coal Co., Montgomery county, has been changed to the Miller

#### PROSPECTIVE MINES.

lidated Coal Co. of St. Louis, Mo., is sinking a new shaft two f Mt. Olive, Macoupin county. This mine, when completed, will No. 15. A spur will be run from the Wabash railroad to the

Coal company is sinking a new mine near Cora station, Sangamon he line of the C. P. & St. L. railroad, about eight miles north- ngfield.

omon, one of the late owners of the Black Diamond coal mine, is sinking a new shaft on the line or the C. & A. railroad, about uth of Auburn, Sangamon county.

#### FATAL ACCIDENTS.

ving is a detailed statement of the fatal accidents which have oc- e district during the year ending June 30, 1904:

03, Peter Bogards, miner, age 30 years, single, was burnt by an powder in the Chicago-Virden Coal company's mine No. 3, Chat- non county. He died ten days afterward. He was making a car- t his lamp fell into the keg of powder.

03, Frank Powers, miner, aged 30 years, single, was injured by and clod at the working face of his room in the Victor Coal com- at Pawnee, Sangamon county. He died Sept. 26, 1903.

03, Albert Goekel, carpenter, aged 38 years, married, was injured om the roof of the boiler house, at the Consolidated Coal com- No. 6, Staunton, Macoupin county, dying the same day. He ow and five children.

03, William Davis, miner, aged 35 years, single, was killed by while working in an air course in the Chicago-Virden Coal com- at Chatham, Sangamon county.

03, Steve Bolki, miner, aged 26 years, single, was injured by fall- he Chicago-Virden Coal company's mine at Chatham, Sangamon ied 14 days after the accident. His partner, Wm. Davis, was him at the time of the accident.



Sept. 8, 1903, Frank Moloski, miner, aged 25 years, single, was injured by falling coal and clod at the working face of his room, in the Cantrall Cooperative Coal company's mine at Cantrall, Sangamon county. He died Sept. 23, 1903.

Oct. 3, 1903, Hugo Lorenz, miner, aged 21 years, single, was killed by falling slate at the working face of his room, in the Madison Coal company's mine No. 5, at Mount Olive, Macoupin county.

Nov. 27, 1903, James McClarnon, driver, aged 24 years, married, was killed by falling slate in the Capital Cooperative Coal company's mine at Springfield, Sangamon county. The mine car jumped the track, knocking out the props and cross bars, causing the slate to fall on him. He leaves a widow.

Dec. 12, 1903, Robert Bradley, driver, aged 38 years, single, was killed by being caught between a mine car and a prop in the Spaulding Coal company's mine No. 2 at Bissell, Sangamon county.

Dec. 12, 1903, Charles Hueston, machine helper, aged 36 years, married, was killed by falling clod at the working face, in the William Niel & Co.'s mine at Bunker Hill, Macoupin county. He leaves a widow and two children.

Dec. 17, 1903, Daniel Gordon, top boss, aged 34 years, married, was killed by being struck with a cage at the lower landing at the Springfield Coal Mining Co.'s No. 4 mine, Springfield, Sangamon county.

Jan. 5, 1904, Simon Carmody, miner, aged 70 years, married, was killed by a fall of top coal and slate, at the working face of his room in the Greenridge Mining Co.'s mine, Greenridge, Macoupin county. He leaves a widow and two children.

Jan. 9, 1904, Geo. T. Prince, shot frir, aged 58 years, married, was killed by being suffocated by after damp, produced by a windy shot, in the Victor Coal Co.'s mine at Pawnee, Sangamon county. He leaves a widow and two children.

Jan. 14, 1904, Thomas Cocks, top laborer, aged 27 years, single, was killed by being caught between coal cars on the surface, at the Consolidated Coal Co.'s mine at Mount Olive, Macoupin county.

Jan. 22, 1904, James J. Williams, miner, aged 45 years, married, was killed by a premature explosion in the Chicago-Virden Coal Co.'s No. 1 mine at Virden, Macoupin county. The company was experimenting with a new powder, which exploded while Williams was tamping the shot. He leaves a widow and two children.

March 1, 1904, Patrick Burns, miner, aged 50 years, married, was killed by a blast; he was drilling out a shot that had missed fire the day before: the drill probably struck some slate, igniting the powder, causing it to explode. This was in the Chicago-Virden Coal Co.'s No. 1 mine at Virden, Macoupin county. He died ten days after the accident, leaving a widow and two children.

March 23, 1904, Carl Struck, engineer, aged 40 years, married, was killed by becoming entangled in the machinery of the fan engine at the Sangamon Coal Co.'s mine Springfield, Sangamon county. He leaves a widow and one child.

March 24, 1904, Herman Haase, sinker, aged 26 years, married, was killed by falling from a temporary cage while putting in guides at the Consolidated Coal Co.'s mine No. 14, Staunton, Macoupin county. He leaves a widow.

March 31, 1904, Matthew Johnson, miner, aged 35 years, married, was killed by falling rock in the Virden Coal Co.'s mine at Virden, Macoupin county. He was working at a fire wall, when a piece of rock fell, striking his leg, throwing him over; his head struck a water barrel, causing his death. He leaves a widow and three children.

April 13, 1904, Joseph Ulehner, miner, aged 34 years, married, was killed by the explosion of a shot; deceased returned to examine a shot he supposed had missed fire. This accident occurred in the Trutter Coal Co.'s mine, Pleasant Plains, Sangamon county.

April 19, 1904, Henry Horrick, miner, aged 58 years, married, was injured by a premature blast in the Springfield Coal Co.'s mine No. 5, Springfield Sangamon county. He died May 3, 1904, leaving a widow and six children.

John Brown, miner, aged 53 years, married, was killed by falling coal at the working face of his room, in the Chicago, Wilmington & Vermillion Co. Co.'s mine at Thayer, Sangamon county.

May 4, 1904, Henry Luck, miner, aged 58 years, single, was killed by a premature blast, in the Greenridge Mining Co.'s mine at Greenridge, Macoupin county.

May 17, 1904, John Sheppard, top laborer, aged 48 years, married, was killed by being caught in the screen machinery at the Capital Cooperative Coal Co.'s mine at Springfield, Sangamon county. He leaves a widow and six children.

May 24, 1904, Wm. Dungan, miner, aged 50 years, married, was injured by a premature blast, in the Jefferson Coal Co.'s mine at Springfield, Sangamon county, and died the next day. He leaves a widow and two children.

June 14, 1904, Pearl Beenblossom, trapper, aged 17 years, single, was killed by being struck by a lagging timber. The mine cars jumped the track, striking the lagging timber, forcing it on to the boy. He was at his trap door in the Litchfield Mining & Power Co.'s mine, Litchfield, Montgomery county.

June 15, 1904, John Ridlia, miner, aged 28 years, single, was killed by being crushed between mine cars in the Consolidated Coal Co.'s mine No. 7, at Staunton, Macoupin county.

Following will be found the regular tables for each county, also the tables of fatal and non-fatal accidents.

Respectfully submitted,

WALTON RUTLEDGE,  
*State Inspector of Mines, Fifth District, Alton.*

*Fatal Casualties—Fifth District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children.	Single.	Persons dependent	Cause of accident.
1903.										
Aug. 7	Peter Bogards.....	30	Miner.....	Chatham.....				1		Powder explosion...
Aug. 8	Frank Powers.....	30	Miner.....	Pawnee.....				1		Falling coal.....
Aug. 10	Albert Goekel.....	38	Carpenter.....	Staunton.....	1	1	5			6 Falling from roof boiler house.....
Aug. 26	Wm. Davis.....	35	Miner.....	Chatham.....				1		Falling rock.....
Aug. 26	Steve Bolki.....	26	Miner.....	Chatham.....				1		Falling rock.....
Sept. 8	Frank Moloski.....	25	Miner.....	Cantrall.....				1		Falling coal.....
Oct. 3	Hugo Lorenz.....	21	Miner.....	Mt. Olive.....				1		Falling slate.....
Nov. 27	Jas. McClarron.....	24	Driver.....	Springfield.....				1		Falling slate.....
Dec. 12	Robt. Bradley.....	38	Driver.....	Bissell.....				1		Caught by car and prop.....
Dec. 12	Chas. Hueston.....	36	Mch. helper.....	Bunker Hill.....	1	1	2			3 Falling clod.....
Dec. 17	Daniel Gordon.....	34	Top boss.....	Springfield.....	1	1				1 Struck by cage.....
1904.										
Jan. 5	Simon Cormody.....	70	Miner.....	Greenridge.....	1	1	2			3 Falling coal.....
Jan. 9	Geo. T. Prince.....	58	Shot firer.....	Pawnee.....	1	1	2			3 Suffocated—Windy shot.....
Jan. 14	Thos. Cocks.....	27	Laborer.....	Mt. Olive.....				1		Surface cars.....
Jan. 22	Jas. J. Williams.....	45	Miner.....	Virden.....	1	1	2			3 Premature explosion.....
March 1	Patrick Burns.....	50	Miner.....	Virden.....	1	1	2			3 Premature explosion.....
March 23	Carl Struck.....	40	Engineer.....	Springfield.....	1	1	1			2 Fan engine.....
March 24	Herman Haase.....	26	Sinker.....	Staunton.....	1	1				1 Fell from cage.....
March 31	Mathew Johnson.....	35	Miner.....	Virden.....	1	1	3			4 Falling rock.....
April 13	Jos. Ulchner.....	34	Miner.....	Pl'snt Plains.....	1	1				1 Explosion of shot.....
April 19	Henry Horrick.....	58	Miner.....	Springfield.....	1	1	6			7 Premature blast.....
April 19	John Brown.....	53	Miner.....	Thayer.....	1	1	4			5 Falling coal.....
May 4	Henry Luck.....	58	Miner.....	Greenridge.....				1		Premature blast.....
May 17	John Sheppard.....	48	Top laborer.....	Springfield.....	1	1	6			7 Caught in machinery.....
May 24	Wm. Dungan.....	50	Miner.....	Springfield.....	1	1	2			3 Premature blast.....
June 14	Pearl Beenblossom.....	17	Trapper.....	Litchfield.....				1		Falling timbers.....
June 15	John Ridlia.....	28	Miner.....	Staunton.....				1		Mining car.....
Total 27.....					15	15	37	12	*52	

*Recapitulation of Fatal Casualties—Fifth District—1904.*

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Bissell.....	1	Miners.....	16	Falling from roof of boiler house.....	1	Cantrall Co&p. C Co..	
Bunker Hill.....	1	Carpenter.....	1	Falling coal.....	4	Capitol Coal Co. ....	
Cantrall.....	1	Drivers.....	2	Falling rock.....	5	Chi.-Virden Coal Co..	
Chatham.....	3	Engineer.....	1	Falling clod.....	1	Chi.-Wil. M. Co.....	
Greenridge.....	2	Laborers.....	2	Falling timber.....	1	Consolidated Coal Co.	
Litchfield.....	1	Mch. helper.....	1	Fan engine.....	1	Consol'd C. Co., No. 6.	
Mount Olive.....	2	Shot firer.....	1	Machine.....	1	Consol'd C. Co., No. 7.	
Pawnee.....	2	Sinker.....	1	Mining car.....	1	Consol'd C. Co., No. 14.	
Pleasant Pl'ns.....	1	Top boss.....	1	Mining cage.....	2	Spaulding Coal Co.....	
Staunton.....	3	Trapper.....	1	Powder explosion.....	2	Greenridge Mining Co	
Springfield.....	6			Premature blast.....	1	Jefferson Coal Co.....	
Thayer.....	1			Windy shot.....	5	Litchfield M. & P. Co.	
Virden.....	3			Railroad car.....	2	Madison Coal Co.....	
					1	Sangamon Coal Co.....	
						Springfield C. & M. Co., No. 4.....	
						Trutter Coal Co.....	
						Victor Coal Co.....	
						Virden Coal Co.....	
						Wm. Neil & Co.....	
Total.....	27		27		27		1

## Non-Fatal Casualties—Fifth District—July 1, 1903.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
July 13	M. Saugaleff.	52	Miner.	Litchfield.	L. M. & P. Co.	1	1	1	2	Leg broken; falling slate.	60
July 30	J. W. Muir.	45	Miner.	Carlinville.	Con. Coal Co.	1	1	1	2	Arm broken and body bruised; premature blast.	52
Aug. 30	Geo. Bub.	22	Top laborer.	Staunton.	Con. Coal Co. No. 6.	1	1	1	1	Knee dislocated; coal car on surface.	56
Aug. 31	Ed. Binney.	30	Miner.	Springfield.	Wil. & Sp. C. Co.	1	1	1	1	Leg broken; falling slate.	56
Aug. 31	P. H. Shanahan.	3	Cager.	Gillespie.	Con. Coal Co.	1	1	1	5	Finger badly mashed; mine car.	35
Aug. 6	Ed. Davis.	18	Driver.	Litchfield.	L. M. & P. Co.	1	1	1	1	Leg broken; pit cars.	70
Aug. 12	Chas. Hasse.	20	Driver.	Staunton.	Con. Coal Co. No. 6.	1	1	1	2	Leg broken; mule falling on him.	90
Aug. 13	Allen Johnson.	22	Driver.	Pleasant Plains.	Trutter Coal Co.	1	1	1	1	Body bruised; falling slate on hauling road.	35
Aug. 13	Ben. Wessell.	18	Driver.	Staunton.	Con. Coal Co. No. 6.	1	1	1	1	Foot mashed; mine car.	32
Aug. 21	Chas. Dunbar.	19	Driver.	Pawnee.	Victor Coal Co.	1	1	1	1	Injured by mine car; leg amputated.	40
Aug. 22	Geo. Drier.	19	Driver.	Mount Olive.	Mad. Coal Co. No. 5.	1	1	1	1	Foot badly mashed; mine car.	40
Aug. 24	Geo. Edwards.	24	Timberman.	Divernon.	Mad. Coal Co. No. 6.	1	1	1	1	Face and hands burned; explosion of fire damp.	78
Aug. 24	Thos. Evans.	54	Laborer.	Divernon.	Mad. Coal Co. No. 6.	1	1	1	1	Face and hands burned; explosion of fire damp.	72
Aug. 24	John Gillespie.	38	Timberman.	Divernon.	Mad. Coal Co. No. 6.	1	1	1	5	Face, hand and body burned; explosion of fire damp.	108
Aug. 31	Henry Watts.	45	Miner.	Springfield.	Wil. & Sp. C. Co.	1	1	2	3	Leg broken and body bruised; premature blast.	52
Sept. 31	Jos. McAlpine.	35	Miner.	Springfield.	Sp. C. M. Co. No. 4.	1	1	3	4	Leg badly bruised; falling slate.	90
Sept. 4	Thos. Graydon.	54	Miner.	Thayer.	C. W. & V. C. Co.	1	1	1	1	Body bruised; falling slate.	90
Sept. 8	Jos. Long.	36	Mac. help.	Gillespie.	Con. Coal Co.	1	1	1	1	Leg broken; falling coal.	85
Sept. 8	Chas. Swanberg.	23	Driver.	Thayer.	C. W. & V. C. Co.	1	1	1	1	Leg mashed; mine car.	53
Sept. 10	Elmer Woolery.	30	Roadman.	Springfield.	Sp. C. M. Co. No. 3.	1	1	1	1	Knee dislocated; falling slate.	35
Sept. 13	W. G. Johnson.	35	Miner.	Springfield.	Sp. C. M. Co. No. 5.	1	1	1	2	Body bruised; falling slate.	40
Sept. 22	Nick Kahn.	24	Driver.	Thayer.	C. W. & V. C. Co.	1	1	1	1	Body badly bruised; mine car.	75
Sept. 22	Wm. Vivian.	16	Springer.	Thayer.	C. W. & V. C. Co.	1	1	1	1	Hand mashed in spragging mine car.	37
Sept. 22	M. Klingler.	48	Loader.	Staunton.	Con. Coal Co. No. 6.	1	1	1	1	Leg and foot mashed; falling coal.	40
Sept. 28	I. S. Kanka.	19	Ass't. cager.	Mount Olive.	Con. Coal Co. No. 10.	1	1	1	1	Foot mashed; coal falling down shaft.	32
Sept. 16	Mike Lukas.	30	Miner.	Staunton.	Con. Coal Co. No. 7.	1	1	1	1	Hands and face burned by powder.	34
Sept. 16	John Scritic.	25	Miner.	Staunton.	Con. Coal Co. No. 7.	1	1	1	1	Hands and face burned by powder.	40
Sept. 24	Fred Hebenstreit.	39	Cager.	Staunton.	Con. Coal Co. No. 6.	1	1	1	8	Leg broken; struck by hauling cable.	32
Sept. 26	Fred Berg Jun.	17	Laborer.	Mount Olive.	Con. Coal Co. No. 10.	1	1	1	1	Hand bruised; mine car.	32
Sept. 27	Thos. Blower.	23	Driver.	Divernon.	Mad. Coal Co. No. 6.	1	1	1	2	Body badly bruised; mine car.	136
Sept. 27	Fritz Sandner.	23	Loader.	Mount Olive.	Mad. Coal Co. No. 6.	1	1	1	1	Foot badly mashed; falling coal.	130
Sept. 27	Fred Cryder.	33	Mac. help.	Divernon.	Mad. Coal Co. No. 6.	1	1	1	2	Leg broken; caught by machine.	140

## STATISTICS OF LABOR.

## Non-Fatal Casualties—Fifth District—July 1, 1904—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Children.	Single.	Persons Dependent.	Cause of Accident.	Days lost.
1903											
Nov.	7 Thos. Edwards.....	23	Driver.....	Mount Olive.....	Con. Coal Co. No. 10.....		1	1		Foot mashed; mine car.....	35
	17 Patrick O'Hara.....	23	Driver.....	Auburn.....	W. & A. C. C. C.....		1	1		Leg broken; caught by mine car.....	73
	28 Paul Severick.....	24	Miner.....	Springfield.....	W. L. & Sp. C. Co.....		1	1		Leg broken; falling slate.....	90
1904											
Jan.	5 Wm. Moore.....	45	Miner.....	Springfield.....	Jones & Adams C. C.....	1		5	6	Body badly bruised; premature blast.....	110
	9 Steve German.....	50	Miner.....	Virde.....	Chi. V. C. C. No. 1.....		1	1		Body bruised; falling coal and slate.....	37
	11 Henry Seber.....	24	Driver.....	Springfield.....	Jones & Adams C. C.....		1	1		Body bruised; caught by mine car.....	46
	14 Clyde Babbitt.....	16	Driver.....	Divernon.....	Mad. C. C. No. 6.....		1	1		Foot mashed; mine car.....	33
	25 Chris Stoddie.....	53	Loader.....	Mount Olive.....	Mad. C. C. No. 5.....	1		2	3	Ribs broken; falling slate.....	41
	28 Ed. Boyte.....	20	Spragger.....	Thayer.....	C. W. & V. C. C.....		1	1		Loaded car run over fingers; mashed.....	32
	21 Jos. Stockman.....	30	Timberman.....	Virde.....	Virde Coal Co.....		1	1		Leg broken; falling slate.....	90
Feb.	21 Thos. Gilmore.....	25	Driver.....	Springfield.....	Jones & Adams C. C.....	1		1	2	Leg broken; mine car.....	90
	29 John Gosch.....	30	Laborer.....	Mount Olive.....	Mad. C. C. No. 5.....		1	1		Eye injured; piece iron in blacksmith shop.....	84
Mar.											
	3 Herman Frankie.....	36	Loader.....	Mount Olive.....	Mad. C. C. No. 5.....	1		1	3	Leg broken; falling coal.....	90
	12 Jos. Cuthbert, Sen.....	39	Loader.....	Mount Olive.....	Mad. C. C. No. 5.....		1	6	7	Leg broken; falling coal.....	90
	12 T. Piper.....	22	Driver.....	Carlinville.....	Carlinville C. C.....		1	1	1	Shoulder blade broken; mine car.....	32
	24 Robt. Stein.....	24	Timberman.....	Carlinville.....	Carlinville C. C.....		1	1		Body bruised; falling slate.....	35
	28 Jos. Wetzel.....	30	Miner.....	Carlinville.....	Carlinville C. C.....		1	1		Leg broken; falling coal and slate.....	90
	28 John Mondula.....	50	Laborer.....	Thayer.....	C. W. & V. C. C.....		1	1		Body bruised; mine car.....	42
	28 Thos. Gardner.....	28	Driver.....	Divernon.....	Mad. C. C. No. 6.....		1	1	2	Body bruised; mine car.....	35
Apr.	18 Herbert Robinson.....	45	Miner.....	Coffeen.....	Clov. L. C. C.....	1		1	4	Hands and face burned; powder explosion.....	32
	18 Henry Majors.....	32	Miner.....	Coffeen.....	Clov. L. C. C.....	1		3	4	Hands and face burned; powder explosion.....	63
	18 Wm. Redding.....	38	Miner.....	Coffeen.....	Clov. L. C. C.....	1		2	3	Hands and face burned; powder explosion.....	32
	27 Robt. Hamilton.....	33	Laborer.....	Thayer.....	C. W. & V. C. C.....	1		1	2	Foot bruised; falling coal.....	32
	29 Frank Simmons.....	45	Miner.....	Litchfield.....	L. M. & P. Co.....		1	1		Body badly bruised; premature blast.....	*
June	Totals.....					22	34	51	73		

Not recovered July 1, 1904. Total number injured, 56. Not recovered July 1, 1904. 1. Recovered June 30, 1904, 55.  
 \* Five lost by men recovered, 3,353 days. Average number of days lost by men recovered, 60 days.

*apitulation of Non-Fatal Casualties—Fifth District—July 1, 1904.*

INCIDENT.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Iron.....	1	Cager.....	2	Blast explosion.....	4	Auburn & A. C. Co....	1
Carlinville.....	4	Cagers Asst....	1	Flying iron, black-smith shop.....	1	Carlinville C. Co.....	4
Men.....	3	Drivers.....	16	Cable.....	1	Chi-Virden C. Co. No. 1	1
Mon.....	7	Laborer.....	6	Falling coal.....	8	Chi-W. & V. C. Co.....	7
Spie.....	2	Loaders.....	5	Falling down shaft.....	1	Clover Leaf C. Co.....	3
Field.....	3	Machine help.....	2	Falling slate.....	11	Consolidated C. Co.....	2
Oliver.....	9	Miners.....	17	Fire damp.....	3	Consolid'd C. Co. No. 6	5
Lee.....	1	Roadsman.....	1	Machine.....	1	Consolid'd C. Co. No. 7	2
Plains.....	1	Spraggers.....	2	Mule.....	1	Consolid'd C. Co. No. 10	3
Griffith.....	9	Timbermen.....	4	Pit cars.....	20	Jones & Adams.....	3
Stanton.....	7			Powder explosion.....	5	Litchfield M. & P. Co.	3
Er.....	7					Madison C. Co. No. 5	5
En.....	2					Madison C. Co. No. 6	8
						Springfield C&M No. 3	1
						Springfield C&M No. 4	1
						Springfield C&M No. 5	1
						Trutter C. Co.....	1
						Victor C. Co.....	1
						Virden C. Co.....	1
						Wil-Springfield C. C..	3
	56		56		56		56

*le showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages, Fifth District—1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
broken.....	1	1	.....	2	52	52	1.79
es injured.....	12	4	8	11	646	54	21.43
njured.....	1	1	.....	2	84	84	1.79
s and hands burned.....	8	4	4	15	462	58	14.28
ers mashed.....	2	1	1	5	67	34	3.57
mashed.....	7	1	6	2	327	47	12.50
l injured.....	1	.....	1	.....	32	32	1.79
l mashed.....	1	.....	1	.....	37	37	1.79
s dislocated.....	2	.....	2	.....	67	34	3.57
broken.....	15	7	8	28	1,300	87	28.78
injured.....	4	1	3	4	186	47	7.13
broken.....	1	1	.....	3	41	41	1.79
lder blade broken.....	1	1	.....	1	32	32	1.79
Totals, averages and percentages.....	56	22	34	73	3,333	66	100.00

*Brown County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
	LOCAL MINES.						
1	Thos. Lewis .....	Ripley .....	420	420	.....	.....	.....
2	L. Hedrick .....	Ripley .....	304	304	.....	.....	.....
3	Geo. Dunlap .....	Mt. Sterling .....	310	210	.....	.....	.....
4	J. Howard .....	Mt. Sterling .....	204	204	.....	.....	.....
5	Geo. Adams .....	Mt. Sterling .....	195	195	.....	.....	.....
	Strip coal * .....		250	250	.....	.....	.....
	Total 5 mines.....	.....	1,583	1,583	.....	.....	.....

Mines in 1903—10.

New mines—2.

Abandoned mines—7.

Mines in 1904—5.

\* Strip coal.

*Calhoun County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Thomas Press Brick Co.....	Golden Eagle	3,110	3,110	.....	.....	.....
	Total 1 mine .....	.....	3,110	3,110	.....	.....	.....

*Brown County Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	.....	\$840	.....	.....	.....	.....	.....	420	.....	120	420	1
.....	.....	608	.....	.....	.....	.....	.....	34	.....	110	304	3
.....	.....	420	.....	.....	.....	.....	.....	210	.....	105	210	3
.....	.....	408	.....	.....	.....	.....	.....	204	.....	98	204	4
.....	.....	390	.....	.....	.....	.....	.....	195	.....	90	195	5
.....	.....	500	.....	.....	.....	.....	.....	250	.....	.....	250	.....
.....	.....	\$3,166	10	.....	10	.....	.....	1,583	.....	106	1,583	.....

NOTE—Price paid for hand mining all mines \$1.25 per ton.

*Calhoun County Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	.....	\$5,220	8	5	13	.....	.....	.....	3,110	240	.....	1
.....	.....	\$5,220	8	5	13	.....	.....	.....	3,110	240	.....	.....

NOTE—Price paid for machine mining \$0.50 per ton.



*Greene County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Dill Coal Co .....	Roodhouse ...	3,353	3,353			
2	A. F. Collins .....	Greenfield....	2,950	2,950			
3	Ed Griffiths .....	Roodhouse ....	2,891	2,891			
4	Ed Axley .....	Roodhouse ....	1,440	1,440			
5	Cal Cummings .....	Roodhouse ....	160	160			
6	Duggan & Tully .....	Scottsville ...	62	62			
7	J. Hart .....	Greenfield....	48	48			
Totals—7 mines.....			10,904	10,904			

Mines in 1903, 7.

New mines, 1.

Abandoned mines, 1.

Mines in 1904, 7.

*Jersey County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Cairns & Bott Bros. ....	Brighton.....	928	928	.....	.....	.....
2	L. Miller .....	Brighton.....	820	820	.....	.....	.....
3	L. Hubner .....	Brighton.....	420	420	.....	.....	.....
4	E. Harnish .....	Brighton.....	362	362	.....	.....	.....
5	L. Wagenglass.....	Brighton.....	340	340	.....	.....	.....
6	Jas. Fitzsimmons.....	Brighton.....	325	325	.....	.....	.....
7	Ed Spingman.....	Brighton.....	210	210	.....	.....	.....
Totals—7 mines.....			3,405	3,405	.....	.....	.....

Mines in 1903, 6.

New mines, 1.

Mines in 1904, 7.

*Greene County—Fifth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....		\$5,868	9	13	11	.....	.....	3,353	.....	262	3,353	1
.....		5,163	6	1	7	.....	.....	2,950	.....	250	2,950	2
.....		5,059	6	1	7	.....	.....	2,891	.....	231	2,891	3
.....		520	4	1	5	.....	.....	1,440	.....	250	1,440	4
.....		280	.....	.....	.....	.....	.....	160	.....	90	160	5
.....		108	.....	.....	.....	.....	.....	62	.....	40	62	6
.....		84	1	.....	1	.....	.....	48	.....	32	48	7
.....		\$19,082	30	5	35	.....	.....	10,904	.....	165	10,904	.....

RE.—Price paid for hand mining, all mines, \$1.00 per ton.

*Jersey County—Fifth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....		\$1,624	3	1	4	.....	.....	928	.....	160	928	1
.....		1,435	3	1	3	.....	.....	820	.....	210	820	2
.....		735	1	1	3	.....	.....	420	.....	120	420	3
.....		634	1	1	3	.....	.....	362	.....	125	362	4
.....		595	1	1	3	.....	.....	340	.....	120	340	5
.....		569	1	1	3	.....	.....	325	.....	130	325	6
.....		367	1	1	3	.....	.....	210	.....	90	210	7
.....		\$5,957	15	7	22	.....	.....	3,405	.....	136	3,405	.....

RE.—Price paid for hand mining, all mines, \$1.00 per ton.

*Macoupin County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Chicago-Virden Coal Co., No. 1	Virden	348,388	600	235,953	2,596	3,339
2	Consolidated Coal Co., No. 6	Staunton	240,653	126,146	74,557		
3	Madison Coal Co., No. 5	Mt. Olive	224,330	30,971	144,742		
4	Consolidated Coal Co., No. 8	Mt. Olive	195,133	51,018	104,674		
5	Girard Coal Co.	Girard	183,312	10,621	117,689		
6	Consolidated Coal Co., No. 10	Mt. Olive	174,273	12,891	114,073		
7	Consolidated Coal Co., No. 7	Staunton	171,753	27,188	110,631		
8	Greenridge Mining Co.	Greenridge	161,834	119,476	25,929		
9	Virden Coal Co.	Virden	141,642	45,419	56,621	280	
10	Carlinville Coal Co.	Carlinville	109,654	79,862	18,450		2,305
11	Consolidated Coal Co.	Gillespie	66,988	11,678	36,007		
12	Manufacturers Fuel Co.	Nilwood	63,463		48,173		
13	Royal Colliery Co.	Virden	49,870	14,975	12,340	8,691	
14	Consolidated Coal Co.	Hornsby	42,145	619	30,338		
15	Superior Coal Co., No. 1	Gillespie	25,478	25,478			
16	Consolidated Coal Co., No. 14	Staunton	8,502	8,502			
17	Superior Coal Co., No. 2	Gillespie	484	484			
Totals			2,207,902	565,928	1,130,177	11,567	3,634
LOCAL MINES.							
1	Wm. Neil & Co.	Bunker Hill	6,482		5,120		720
2	Davis Bros.	Chesterfield	2,120		2,120		
3	Fred Luekings	Brighton	1,120		1,120		
3	G. D. Loper	Chesterfield	1,058		1,058		
5	W. H. A. Bodi	Chesterfield	825		825		
6	E. Lannsford & Co.	Bunker Hill	720		720		
7	John Harbaugh	Chesterfield	642		642		
8	Wm. Hickey	Chesterfield	420		420		
9	Bouser & Truesdale	Bunker Hill	185		185		
Totals			13,572		12,210		720
Totals—26 mines			2,221,474	565,928	1,142,387	11,567	36,354

Mines in 1903, 22.

New mines, 6.

Abandoned mines, 2.

Mines in 1904, 26.

*Macoupin County—Fifth District—Concluded.*

TENS.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
5	19, 125	\$400, 639	220	175	395	331, 580	.....	8, 322	8, 486	230	22, 680	1
0	.....	213, 817	180	94	274	192, 669	26, 030	10, 060	11, 894	176	.....	2
7	.....	212, 947	119	108	227	184, 860	28, 797	1, 508	9, 165	211	.....	3
1	.....	176, 271	150	81	231	181, 299	.....	4, 064	9, 770	147	.....	4
2	.....	199, 621	161	72	233	175, 943	.....	5, 134	2, 235	217	183, 312	5
9	.....	154, 111	140	71	211	164, 217	.....	.....	10, 056	152	.....	6
1	.....	158, 340	145	78	223	161, 086	.....	149	10, 518	153	.....	7
1	2, 690	137, 547	160	61	221	155, 605	.....	3, 539	2, 690	180	161, 834	8
8	1, 204	148, 401	120	60	180	125, 435	6, 986	5, 365	3, 826	203	141, 642	9
9	3, 975	107, 873	120	42	162	92, 623	1, 639	11, 242	4, 150	192	109, 654	10
.....	.....	66, 662	90	52	142	44, 959	10, 064	5, 295	6, 670	141	.....	11
.....	.....	71, 684	75	30	105	61, 638	.....	1, 825	.....	180	68, 463	12
.....	.....	50, 913	75	60	135	47, 930	.....	1, 240	700	142	49, 870	13
.....	.....	44, 963	40	33	73	34, 552	.....	1, 230	6, 363	153	.....	14
.....	.....	28, 732	51	23	74	25, 430	.....	.....	48	75	.....	15
.....	.....	7, 907	40	18	58	6, 607	.....	.....	1, 895	60	.....	16
.....	.....	508	18	24	42	474	.....	.....	10	40	.....	17
.....	26, 994	\$2, 178, 956	1, 904	1, 082	2, 986	1, 986, 907	73, 516	59, 203	88, 476	177	732, 455	.....
TE.—Price paid for hand mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.52; Average price for year, \$0.5425. Price paid for machine mining, shipping mines: From July 1, 1903, to April 1, 1904, \$0.48; Average price for year, \$0.4725 per ton.												
.....	.....	\$10, 001	10	5	15	.....	.....	6, 157	325	220	.....	1
.....	.....	3, 710	5	1	6	.....	.....	2, 120	.....	224	2, 120	2
.....	.....	1, 960	3	1	4	.....	.....	1, 120	.....	165	1, 120	3
.....	.....	1, 851	3	1	4	.....	.....	1, 058	.....	175	1, 058	4
.....	.....	1, 444	3	1	4	.....	.....	825	.....	150	825	5
.....	.....	1, 260	2	1	3	.....	.....	720	.....	180	720	6
.....	.....	1, 123	2	1	3	.....	.....	642	.....	172	642	7
.....	.....	735	2	1	3	.....	.....	420	.....	100	420	8
.....	.....	324	2	1	3	.....	.....	185	.....	90	185	9
.....	.....	\$22, 408	32	13	45	.....	.....	13, 247	325	173	7, 090	.....
.....	26, 994	\$2, 201, 364	1, 936	1, 065	3, 031	1, 986, 907	73, 516	72, 250	88, 801	.....	739, 545	.....

ce paid for hand mining local mines, \$1.00 per ton.  
 chine mining, local mines, \$0.50 per ton.

*Montgomery County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Hillsboro Coal Co.....	Hillsboro .....	156,498	22,906	88,549	.....	7,072
2	Montgomery Coal Co.....	Paisley .....	136,863	3,300	72,695	9,963	15,767
3	Litchfield M. & P. Co.....	Litchfield.....	105,114	16,014	53,800	12,700	10,600
4	Clover Leaf Coal Co.....	Coffeen.....	92,476	2,477	75,776	.....	3,688
5	Miller Coal Co.....	Raymond .....	3,550	.....	3,220	.....	.....
Total, 5 mines.....			494,501	44,697	294,080	22,663	40,012

Mines in 1903, 5.

Mines in 1904, 5.

*Morgan County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	F. Wagstaff .....	Murryville .....	3,200	3,200			
2	Jacob Stocker .....	Arenzville .....	1,100	1,100			
Totals, 2 mines .....			4,300	4,300			

Mines in 1903, 2.

Mines in 1904, 2.

*Montgomery County—Fifth District—1904—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	4,248	\$162,651	110	68	178	142,298		9,945	4,255	201		1
		142,268	140	54	194	131,365		3,652	1,846	123	136,863	2
	12,000	118,205	90	28	118	77,871	2,200	22,643	2,400	270	105,114	3
		109,122	65	38	103	88,294		2,382	1,800	258	92,476	4
	10	4,334	8	4	12	625		2,840	85	177	3,550	5
	16,258	\$536,580	413	192	605	440,453	2,200	41,462	10,386	206	338,004	

TE—Price paid for hand mining from July 1, 1903 to April 1, 1904, \$0.55; from April 1, July 1, 1904, \$0.52; average price per year, \$0.5425 per ton. Price paid for machine from July 1, 1903 to April 1, 1904, \$0.48; from April 1, 1904 to July 1, 1904, \$0.45. Average for year, \$0.4725.

*Morgan County—Fifth District—1904—Concluded.*

NS.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$5,600	9	1	10			3,200		180	3,200	1
		2,475	3	1	4			1,100		208	1,100	2
		\$8,075	12	2	14			4,300		194	4,300	

TE—Average price paid for hand mining for year \$1.064.

*Sangamon County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.			
			Total.	Mine run.	Lump.	Egg.
SHIPPING MINES.						
1	Chicago, Wilm. & Verm. Coal. Co.	Thayer .....	387,652	.....	188,165	44,746
2	Madison Coal Co.	Divernon .....	286,880	7,211	181,779	8,653
3	Jones & Adams Coal Co.	Springfield .....	261,991	97,508	99,793	.....
4	Victor Coal Co.	Pawnee .....	249,315	23,633	112,342	.....
5	Chicago, Virden Coal Co., No. 2.	Auburn .....	237,983	46,674	114,840	173
6	Springfield Coal Min. Co., No. 2.	Riverton .....	235,658	15,865	126,008	1,365
7	Capitol Co-Oper. Coal Co.	Springfield .....	197,344	.....	122,021	24,343
8	Springfield Coal Min. Co., No. 5.	Springfield .....	186,439	96,765	61,165	.....
9	Springfield Coal Min. Co., No. 4.	Springfield .....	162,193	94,735	45,938	.....
10	Woodside Coal Co.	Springfield .....	160,586	111,536	24,500	.....
11	Springfield Co-Oper. Coal Co.	Springfield .....	160,000	.....	130,200	.....
12	West End Coal Co.	Springfield .....	150,272	31,256	71,409	.....
13	Springfield Coal Min. Co., No. 1.	Riverton .....	144,135	30,109	76,169	.....
14	Springfield Coal Min. Co., No. 3.	Springfield .....	132,435	45,498	59,981	.....
15	Jefferson Coal Co.	Springfield .....	131,052	65,120	43,624	.....
16	Sangamon Coal Co.	Springfield .....	126,005	48,592	51,712	.....
17	Auburn & Alton Coal Co.	Auburn .....	121,090	60,589	37,120	.....
18	Cantrall Co-Oper. Coal Co.	Cantrall .....	116,611	33,264	56,874	.....
19	Wilmington & Springfield C. Co.	Springfield .....	109,258	14,326	54,363	.....
20	Wabash Coal Co., No. 1.	Dawson .....	107,606	21,506	50,457	.....
21	Spaulding Coal Co., No. 1.	Spaulding .....	105,673	31,702	42,210	.....
22	Chicago-Virden Coal Co., No. 3.	Chatham .....	104,881	28,211	50,439	.....
23	Citizens Coal Min. Co., B.	Springfield .....	103,353	16,148	59,915	.....
24	Williamsville Coal Co.	Selbytown .....	100,295	20,177	40,000	.....
25	Spaulding Coal Co., No. 2.	Bissell .....	94,788	29,432	42,400	.....
26	Barclay Coal Mining Co.	Barclay .....	94,369	37,251	37,616	.....
27	Citizens Coal Mining Co., A.	Springfield .....	82,932	12,407	61,065	.....
28	Truttor Coal Co.	Pleasant Plai's .....	81,000	10,200	40,100	.....
29	Tuxhorn Coal Co.	Keys .....	22,502	22,225	92	24
30	Chicago-Springfield Coal Co.	Springfield .....	11,087	11,087	.....	.....
31	Peabody Mining Co.	Sherman .....	9,500	9,500	.....	.....
Totals .....			4,474,865	1,072,527	2,079,297	79,204
LOCAL MINES.						
1	Lincoln Park Coal Min. Co.	Springfield .....	39,000	.....	22,500	.....
2	J. P. Gordon	Salisbury .....	2,206	.....	1,620	.....
3	Island Grove Coal Co.	Berlin .....	287	.....	252	.....
Totals.....			41,493	.....	24,372	.....
Totals—34 mines .....			4,516,358	1,072,527	2,103,669	79,204

Mines in 1903, 30.

New mines, 4.

Mines in 1904, 34.

## Sangamon County—Fifth District—Concluded.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$354,626	210	200	410	374,755	.....	2,100	10,797	250	.....	1
.....	289,437	142	137	277	272,616	.....	4,354	8,910	214	.....	2
.....	264,896	216	120	336	246,051	.....	9,014	6,926	197	.....	3
.....	235,443	210	86	296	235,825	2,122	7,499	3,869	220	261,991	4
2,193	252,492	225	104	329	231,678	.....	2,390	3,909	182	249,315	5
38,366	248,732	172	86	258	223,196	.....	.....	12,462	214	235,658	6
19,703	222,139	158	68	226	100,530	27,107	50,006	19,703	285	197,344	7
15,783	198,134	138	60	198	173,599	.....	4,800	8,040	222	186,439	8
9,616	172,759	157	55	212	146,280	.....	7,692	8,221	207	162,193	9
9,350	168,255	161	57	218	115,836	28,500	9,800	6,400	200	160,536	10
4,800	160,630	140	50	190	128,000	.....	28,000	4,000	210	160,000	11
.....	166,339	129	46	175	115,201	11,052	20,058	3,961	226	150,272	12
14,537	155,630	118	58	176	132,082	118	4,470	7,465	232	144,135	13
16,315	142,000	108	51	159	123,256	.....	325	8,554	221	132,435	14
.....	140,703	90	49	139	117,456	.....	10,889	2,707	264	131,052	15
3,720	133,263	136	47	183	118,506	.....	3,720	5,779	180	128,005	16
2,460	129,910	110	35	145	111,531	.....	7,099	2,460	200	121,090	17
1,725	131,902	88	49	147	88,687	24,462	1,737	1,725	242	116,611	18
3,008	116,351	109	70	179	92,563	.....	11,617	5,078	213	109,258	19
.....	118,564	90	45	135	101,189	.....	2,967	3,750	191	107,606	20
5,342	109,592	110	40	150	89,871	.....	10,568	5,294	175	105,673	21
1,126	112,028	108	67	175	88,155	.....	2,422	4,305	200	104,882	22
1,275	125,964	102	32	134	88,185	.....	.....	5,168	220	103,553	23
.....	103,274	85	43	128	87,865	.....	8,220	4,210	190	100,285	24
.....	101,729	125	37	162	88,847	.....	1,200	4,740	225	94,787	25
.....	98,920	99	44	143	85,808	.....	6,370	4,213	291	94,399	26
1,024	112,106	94	32	126	64,766	16,066	1,074	1,026	158	82,932	27
.....	90,385	40	13	53	59,000	.....	20,000	2,000	270	81,000	28
.....	25,962	32	26	58	22,269	.....	116	117	120	22,502	29
.....	14,413	48	17	65	10,637	.....	.....	450	90	11,087	30
.....	9,975	62	26	88	9,100	.....	.....	400	75	9,500	31
150,460	\$4,708,954	3,822	1,848	5,670	3,962,340	109,425	238,221	164,879	214	3,800,333	

RE.—Price paid for hand mining in 28 shipping mines. From July 1, 1903, to April 1, 1904, \$0.557. Average price for year, \$0.5495.  
 e paid for hand mining in 3 shipping mines. From July 1, 1903, to April 1, 1904, \$0.55; from April 1, 1904, to July 1, 1904, \$0.52. Average price for year, \$0.5425. Average price for mining for year in Sangamon County, \$0.5486 per ton.  
 e paid for machine mining: From July 1, 1903, to April 1, 1904, \$0.48. From April 1, 1904, to July 1, 1904, \$0.45. Average price for year, \$0.4725.

6,500	\$58,250	30	14	44	.....	37,050	1,950	240	39,000	1
150	3,751	4	3	7	.....	2,096	110	280	2,206	2
10	534	6	3	9	.....	277	10	60	287	3
<hr/>										
6,660	\$62,535	40	20	60	.....	39,423	2,070	260	41,493	
<hr/>										
157,120	\$4,771,489	3,862	1,868	5,730	3,962,340	109,425	277,644	166,949	.....	3,841,826

e paid for hand mining: From July 1, 1903, to April 1, 1904, \$0.557, from April 1, 1904, to July 1, 1904, \$0.527. Average price for year, \$0.5195 per ton.



*Scott County—Fifth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine Run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Wm. H. Bates & Co .....	Winchester ..	18,115	.....	15,515		
2	Chas. McElwee .....	Winchester ..	1,383	1,383			
3	Wm. Kund .....	Bluffs .....	1,234	1,234			
4	Brockett & Berry .....	Exeter .....	810	810			
5	Geo. Rayborn .....	Winchester ..	804	804			
6	John McGuire .....	Alsey .....	800	800			
7	George R. Jones .....	Winchester ..	715	715			
8	P. McGuire .....	Alsey .....	650	650			
9	Fred Brockhouse .....	Chapin .....	596	596			
10	Wm. Middendorf .....	Chapin .....	420	420			
11	Armitage & Brown .....	Exeter .....	310	310			
12	Herman Poblman .....	Bluffs .....	250	250			
13	M. Six .....	Exeter .....	210	210			
14	E. Jording .....	Exeter .....	180	180			
15	E. Rauff .....	Bluffs .....	175	175			
Total 15 mines .....			24,652	8,537	15,515		

Mines in 1903—15.  
 Abandoned mines—3  
 Mines in 1904—15.

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Macoupin .....	17	2,207,902	565,928	1,130,177	11,567	35,624	437,612	26,994	\$2,178,956
Montgomery .....	5	494,501	44,697	294,080	22,663	40,012	76,791	16,258	536,560
Sangamon .....	31	4,474,865	1,072,527	2,079,297	79,204	143,966	950,411	150,460	4,708,954
Totals and averages	53	7,177,268	1,683,152	3,508,554	113,434	218,602	1,464,814	193,712	\$7,424,490

*Scott County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
600		\$26,667	27	11	38	12,396		3,469	250	298	16,115	1
		2,420	3	1	4			1,383		220	1,383	2
		2,468	3		3			1,234		240	1,234	3
		1,620	3	1	4			810		205	810	4
		1,407	3	1	4			804		215	804	5
		1,400	3		3			800		204	800	6
		1,251	3	1	4			715		200	715	7
		1,138	3		3			650		194	650	8
		1,192	3		3			596		187	596	9
		840	3	1	3			420		190	420	10
		620	3		3			310		187	310	11
		500	3	1	3			250		190	250	12
		420	3	1	3			210		187	210	13
		380	3		3			180		175	180	14
		350	3		3			175		172	175	15
600		\$42,653	63	18	81	12,396		12,006	250	198	24,652	

NOTE—Average price paid for hand mining for year \$1.12 per ton.

*Fifth District—1904—Shipping Mines.*

EMPLOYES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machines.	Hand mining.	Machine mining.		
1,904	1,082	2,986	1,986,907	73,516	59,003	88,476	177	732,455	1,475,447	\$0.5425	\$0.4725	76	15
413	192	605	440,453	2,200	41,462	10,386	206	338,008	156,498	0.5425	0.4725	18	5
3,822	1,848	5,670	3,962,340	109,425	238,221	164,879	214	3,800,333	674,532	0.5486	0.4725	115	31
6,139	3,122	9,261	6,389,700	185,141	338,686	263,741	202	4,870,791	2,306,477	\$0.5473	\$0.4725	309	51

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Brown .....	5	1,583	1,583						\$ 3,166
Calhoun .....	1	3,110	3,110						6,220
Greene .....	7	10,904	10,904						19,082
Jersey .....	7	3,405	3,405						5,969
Macoupin .....	9	13,572		12,210		720	642		22,408
Morgan .....	2	4,300	4,300						8,075
Sangamon .....	3	41,493		24,372			10,461	6,660	62,535
Scott .....	15	24,652	8,537	15,515				600	42,653
Totals and averages	49	103,019	31,839	52,097		720	11,108	7,260	\$170,098
Totals, districts — all mines .....	102	7,280,287	1,714,991	3,555,651	113,434	219,323	1,475,917	200,972	\$7,594,588

Whole number of mines reported in 1903, 101.

Number of new mines opened during the year, 14.

Number of mines exhausted or abandoned during the year, 13.

Whole number of mines reported for 1904, 102.

*Fifth District—1904—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID P R TON FOR—		Number of steam boilers.	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machines.	Hand mining.	Machine mining.	Number of fans.	Number of fans.
10	.....	10	.....	.....	1,583	.....	108	1,583	.....	\$1.25	.....	.....	.....
8	5	13	.....	.....	.....	3,110	240	.....	3,110	.....	\$0.50	2	1
30	5	35	.....	.....	10,904	.....	165	10,904	.....	1.00	.....	.....	.....
15	7	22	.....	.....	3,405	.....	136	3,405	.....	1.00	.....	.....	.....
32	13	45	.....	.....	13,247	325	173	7,090	6,482	1.00	0.50	2	1
12	2	14	.....	.....	4,800	.....	194	4,300	.....	1.064	.....	.....	.....
40	20	60	.....	.....	39,423	2,070	260	41,493	.....	0.549	.....	4	1
63	18	81	.....	12,396	12,006	250	198	24,652	.....	1.12	.....	2	1
210	70	280	.....	12,396	84,868	5,755	160	93,427	9,592	\$0.838	\$0.50	10	4
6,349	3,192	9,541	6,389,700	197,537	423,554	269,496	....	4,964,218	2,316,069	.....	.....	219	55

## SIXTH INSPECTION DISTRICT—1904.

## NINTH ANNUAL REPORT.

(The Sixth Inspection District was formed in 1895, the first annual report was for the year ended June 30, 1896.)

Counties—Bond, Clinton, Madison, Marion, St. Clair.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with an act of the General Assembly of this State defining the duties of the State inspectors of coal mines, and requiring annual reports, I herewith submit the ninth annual report of the sixth inspection district, for the year ended June 30, 1904. The counties of the district producing coal are Bond, Clinton, Madison, Marion and St. Clair.

This report gives tabulated statements by counties, of the number of mines operated, with the names of the companies or firms operating the same; the total output of all grades of coal and the disposition of the same; the aggregate value of the output at the mine; the number of miners and other employees; the tonnage mined by hand, also by cutting machines; the number of machines in use; the number of kegs of powder used in blasting coal; the name and size of the fans used with the estimated capacity of cubic feet of air per minute; the number of fatal and non-fatal accidents, and the number of widows and children left dependent.

The following is a summary taken from the statistical tables for the fiscal year:

Number of counties in which coal is produced.....	5
Number of new mines, shipping.....	5
Number of mines abandoned, shipping.....	5
Number of shipping mines.....	5
Number of local mines.....	5
Total tonnage of shipping mines.....	8,530,000
Total tonnage of local mines.....	104,000
Total tons of all mines.....	8,634,000
Tons loaded on cars for shipment.....	7,676,750
Tons supplied to locomotives.....	304,500
Total tons sold to local trade.....	342,500
Tons consumed and wasted at mines.....	\$7,707,175
Aggregate value of total product.....	6,000
Number of miners in all mines.....	2,000
Number of other employees, including boys.....	9,000
Total number of persons employed.....	300
Average number of days of active operation, shipping mines.....	25
Total number of mines using machines.....	25
Number of machines in use.....	25
Number of machines operated by electricity.....	25
Number of machines operated by compressed air.....	3,704,000
Total tons cut by machines.....	4,600,000
Total tons produced by hand in all mines.....	5
Number of fatal accidents.....	5
Number of non-fatal accidents, losing 30 days or more of time.....	5
Number of wives made widows.....	5
Number of children left fatherless.....	5
Number of tons produced for each fatal accident.....	5
Number of tons produced for each non-fatal accident.....	5
Number of persons employed to each fatal accident.....	5
Number of persons employed to each non-fatal accident.....	5

The following table shows the coal production by counties, with the increase in each, for the years ending June 30, 1903 and 1904:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.
	1903.	1904.	
Clair.....	3,134,679	3,418,469	283,790
Madison.....	2,551,587	3,080,892	479,305
Clinton.....	1,002,047	1,083,734	81,687
St. Clair.....	870,518	925,515	54,997
.....	176,000	176,116	116
Total.....	7,734,831	8,634,726	899,895

1 of the counties in the district show an increase, making a total of 895 tons; both Madison and St. Clair counties show a large increase in production.

The number of mines using machines has decreased from 38 in 1903 to 31 in 1904; however, the number of machines in use this year has increased from last year to 325 this year, an increase of 27 machines. Notwithstanding increase in the number of machines the number of tons produced by machines has decreased from 1903 by 150,349 tons.

The number of fatal accidents for the year are 35, being an increase of 5 over last year. The ratio per 1,000 of the number of persons killed is 3.83 for last year and 3.62 for this year.

The subject is here presented which is being considered at this time with a degree of interest, and which has an important bearing on the question of safety between the machine and hand mines.

In this district it is found that the amount of coal produced is 40.8 tons per ton of powder used, in mines where coal is mined by hand; in mines where machines are used to undercut the coal 85.4 tons of coal was produced per keg. Charging the price of a keg of powder to be \$1.75, makes the cost of powder for coal mined by hand \$0.429 per ton, and where mined by machine \$0.205 per ton.

It may also be of interest to know the variations in the number of tons produced per keg of powder in the several counties in the district. In Madison county, where shooting is done off of the solid 34.1 tons were produced per keg; while in machine mines 92.3 tons were produced per keg. In St. Clair county 33.4 tons were produced per keg, in hand mines; in machine mines 103 tons per keg. In Marion county 107.7 tons per keg were produced in machine mines and 32.2 tons per keg in hand mines. In Clinton county 124.3 tons were produced per keg in machine mines and in hand mines 38 tons per keg. In Bond county 66.8 tons were produced per keg where shooting is done off of the solid, and 109.26 tons where coal is mined by machinery.

#### NEW MINES.

The statement following is of mines being sunk during the year and which do not appear in the tables:

The Mt. Olive & Staunton Coal company, Staunton, Macoupin county, has sunk its No. 2 mine; it is located two miles east of the No. 1 mine. It is equipped with a steel tower and an electric plant has been installed. The workings on the surface, engine and boiler rooms, are built of brick; the main and escapement shafts were sunk at the same time.

J. E. Rutledge, president of the Trenton Coal company, Trenton, Clinton county, organized a new company, to be known as the New Staunton Coal company. The new company is sinking two shafts, main and escapement at Livingstone, Madison county, four miles east of Staunton, Macoupin county.

county. These mines are located on a new railroad built by the Frisco and Big Four railroads. It is the intention of the company to make this mine a large producer; a number of houses have been built and a tract of land has been laid out in lots, so that miners desiring to do so may build their own houses.

The St. Louis & O'Fallon Coal company, Belleville, St. Clair county, is sinking a new shaft two miles east of its No. 1 mine, and four miles east of French Village, St. Clair county. The Western Anthracite Coal company has bought this property. This company own their own railroad, the St. Louis & O'Fallon, from the mines to East St. Louis.

A new shaft is being sunk by the Prairie Coal company, Belleville, St. Clair county, located on the East St. Louis & Suburban Electric railroad, four miles west of O'Fallon in St. Clair county.

The old Alma mine, formerly owned by the Consolidated Coal company, of St. Louis, located on the B. & O. S-E. railroad, near O'Fallon, has been sold to Yock Bros., of Belleville. They have reopened the mine, rebuilt the tippie, engine and boiler rooms and retimbered both shafts; the intention is to put in electric motors for haulage under ground.

The coal property known as the Buxton Coal company, Buxton, Clinton county, has been sold to the Breese Coal company, Breese, Clinton county. After this company ascertained the conditions of the property a main shaft was sunk and a tippie built and the company is now ready to hoist coal, being fully equipped with direct hoisting engine and two boilers.

The Breese Coal company has also sunk a new shaft at Trenton, Clinton county, and will commence to hoist coal about the beginning of the next fiscal year.

The Borders Coal company, Marissa, St. Clair county, has sunk its No. 2 shaft two miles northeast of Marissa, located on the Illinois Central railroad.

A company organized as the Little Oak Coal company has sunk a new shaft, located on the Southern railway, six miles east of Belleville, and will commence to hoist coal the beginning of the fiscal year.

The Abbey Coal & Mining company, Collinsville, Madison county, has sunk a shaft at that place to supply local trade.

#### IMPROVEMENTS.

The Donk Bros. Coal & Coke company, Troy, Madison county, has put in two additional electric motors of ten tons each at its Troy mine; also two additional motors at its No. 1 mine near Collinsville.

The Mt. Olive & Staunton Coal company has placed two more electric motors in its No. 1 mine at Staunton, Macoupin county.

The Madison Coal company has sunk a new air shaft at its No. 2 mine, Glen Carbon. This makes three separate openings, which has increased the ventilation to a great extent.

The Glendale Coal Co., Belleville, St. Clair county, has put an electric motor in its No. 1 mine.

The Muren Coal & Ice Co., Belleville, St. Clair county, has installed two electric motors in its mine, New Baden, Clinton county.

The Dutch Hollow Coal Co., Freeburg, St. Clair county, has rebuilt the tippie at its mine, making it more convenient to handle a large output.

#### ABANDONED MINES.

The mine operated by the Clover Coal & Mining Co., New Douglas, Madison county, has abandoned its mine at that place, owing to the condition of the coal seam. It is not profitable to operate this mine.

The Millstadt Coal Co., Millstadt, St. Clair county, has abandoned its mine at that place, the coal being worked out.

The Donk Bros. Coal & Coke Co., has abandoned its mine at Belleville; the greater part of the coal seam was cut by a fault in the strata, the rock over the coal being completely washed out on account of erosion and having a clay roof, making it so that the coal could not be mined.

The Lenz Coal & Mining Co., Belleville, St. Clair county, has closed its mine at that place on account of a fire in the workings. An effort was made to put out the fire by building walls so as to surround it, but this could not be one satisfactorily, preventing the air from getting to the fire. I recommended that the mine be closed down, and the shaft hermetically sealed. After the mine had been closed for six months it was reopened, and coal was mined again for about two months, when it was found that the fire had started anew, and the shaft had to again be sealed up, and remains so at the present time.

## FATAL ACCIDENTS.

July 8, 1903, Joseph Brown, miner, aged 24 years, single, employed in the ft. Olive and Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal at the face of his room.

July 20, 1903, Peter Grosart, driver, aged 30 years, single, was killed in Bonk Bros. Coal & Coke Co.'s mine No. 2 at Maryville, Madison county. He tumbled and fell in front of trip of loaded cars, and was crushed.

July 28, 1903, John Rockman, miner, aged 28 years, married, was killed by falling slate at the face of his room in the Henrietta Coal Co.'s mine No. 1, Edwardsville, Madison county. He leaves a widow and two children.

July 28, 1903, John Toroski, miner, aged 32 years, married, was killed by falling slate in the Henrietta Coal Co.'s mine No. 1, Edwardsville, Madison county. Deceased and John Rockman were killed by the same fall of slate. Toroski leaves a widow.

August 7, 1903, Henry Herpine, aged 37 years, married, was killed instantly in the Kolb Coal Co.'s mine No. 1, Mascoutah, St. Clair county. He was in the act of charging a hole, and was pushing the powder back with a scraper, in doing so the scraper struck a sulphur causing sparks which ignited the powder; an explosion occurred with the result as stated. He leaves a widow and four children.

August 29, 1903, Fred Wiesner, miner, aged 66 years, married, employed in No. 2 mine of the Hippard Coal Co., Belleville, St. Clair county, was fatally injured by a fall of slate, and died while being conveyed to his home. He leaves a widow and four children, none of whom are dependent.

September 3, 1903, Lou Boden, miner, aged 53 years, married, employed by the Royal Coal Co., Belleville, St. Clair County, to retimber a part of the escapement shaft. The fan house and part of the timber in the shaft was burned out by a fire. To retimber part of the shaft that was burned; two scaffolds were built down in the shaft; while at work on the top, one of the upper parts of the shaft, which was not secured, gave away, breaking down the scaffolds, while Boden and his partner were at work. Deceased fell to the bottom of the shaft, killing him instantly. His partner, Tom Davis, was badly injured. The depth of the shaft is 180 feet. He leaves a widow and five children.

September 14, 1903, Alfred Rurey, miner, aged 36 years, married, employed in the Royal Coal Co.'s mine, Belleville, St. Clair county, while mining a standing shot the slate overhead fell, killing him instantly. He leaves a widow and five children.

October 6, 1903, John Rohe, machinist, aged 21 years, single, employed as machine helper in the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal at the face of a room.

October 10, 1903, Chas. Niernman, miner, aged 30 years, married, employed in the Centralia Mining & Manufacturing Co.'s mine No. 2, Centralia, Marion county. Deceased with others was engaged in putting out a fire that had occurred in the mine; the heat from the fire made the roof dangerous, part of it gave way, injuring Niernman seriously, from the effects of which he died the following day. He leaves a widow and three children.

October 13, 1903, George Faust, miner, aged 19 years, single, employed in the Ruby Coal Co.'s mine, Caseyville, St. Clair county, was killed by flying coal from a shot which he had fired. He was standing behind a pillar for safety, the shot blew through the pillar.



October 15, 1903, Joseph Bigshot, machine helper, aged 27 years, single, employed in the Madison Coal Co.'s mine No. 2, Glen Carbon, Madison county, was killed by falling clod at the face of a room.

October 20, 1903, Henry Winters, miner, aged 24 years, single, employed in the Pittenger & Davis Mining and Mfg. Co.'s mine No. 3, Centralia, Marion county. Deceased was emptying powder from a keg preparing to fill a cart on a ridge, when a spark fell from his lamp, igniting the powder, the explosion causing his death.

October 23, 1903, William Kevetz, miner, aged 60 years, married, employed in the Centralia Mining and Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by flying coal from a shot. He leaves a widow and three children.

Oct. 28, 1903, Henry Hopp, miner, aged 28 years, single, was killed instantly in the Belleville & O'Fallen Coal Co.'s No. 1 mine, Belleville, St. Clair county. He had fired two shots and went back to fire a third, when a mass of slate and clod fell crushing him underneath.

Nov. 13, 1903, Patrick Kieff, miner, aged 65 years, married, was killed instantly by falling slate and clod in the Muren Coal & Ice Co.'s mine No. 1, Belleville, St. Clair county. He leaves a widow and seven children; the children are not dependent.

Nov. 24, 1903, William Bittenberg, driver, aged 30 years, married, employed in the Consolidated Coal Co.'s mine, Breese, Clinton county. He was bringing a trip of cars to the bottom of the shaft, and was caught between the trip and some cars that were standing on the track, killing him instantly. He leaves a widow and one child.

Dec. 4, 1903, Henry Trams, machine helper, aged 27 years, married, employed in the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed by falling coal and clod at the face of his room. He leaves a widow and two children.

Dec. 7, 1903, Wm. Needles, miner, aged 21 years, single, employed at the Lumaghi Coal Co.'s mine Collinsville, Madison county, was killed by a trip of loaded cars running over him.

Jan. 5, 1904, Peter Stieber, machine runner, aged 37 years, married, employed in the Madison Coal Co.'s mine No. 2, Glen Carbon, Madison county, was killed by falling coal at the face of his room. He leaves a widow.

Jan. 16, 1904, Fred Schoenbeck, miner, aged 62, years, married, employed in the Centralia Mining & Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by falling rock at the face of his room. He leaves a widow and two children.

Jan. 18, 1904, Ed Maloney, miner, aged 30 years, single, employed in Donk Bros. Coal & Coke Co.'s mine No. 2, Collinsville, Madison county, was killed by falling down the shaft; he was found early in the morning at the bottom of the shaft.

Feb. 2, 1904, Peter Murphy, laborer, aged 28 years, single, employed in the Pittenger & Davis Mining & Mfg. Co.'s mine No. 4, Centralia, Marion county, was seriously injured by falling rock. He was taken to a hospital at Springfield, where he died Feb. 16, 1904.

Feb. 6, 1904, E. L. Brown, miner, aged 36 years, married, employed at the Centralia Mining & Mfg. Co.'s mine No. 2, Centralia, Marion county, was killed by falling coal at the working face. He leaves a widow and one child.

Feb. 12, 1904, George Weindel, teamster, aged 37 years, married, employed by the Trenton Coal Co., Trenton, Clinton county. Deceased was sending a car load of cap pieces down the shaft, thinking that the cage was at the bottom landing, he pushed the car forward and into the shaft, the cage was not there and the car went to the bottom, taking him with it and killing him instantly. He leaves a widow and five children.

Feb. 25, 1904, J. W. Edwards, miner, aged 36 years, employed at the Borders Coal Co.'s mine No. 1, Marissa, St. Clair county. He had lit a squib to fire a shot, the shot did not explode as quickly as he thought it should and he went back for the purpose of putting in another squib, when the shot exploded seriously injuring him, and which proved to be fatal. He leaves a widow.

March 3, 1904, Geo. O. Sherer, miner, aged 25 years, single, employed in the Pittenger & Davis mine No. 3, Centralia, Marion county, was preparing to

large a shot, the cartridge lodged half way in the hole, in trying to cut it with an iron drill, to make it free, the drill caused a spark which ignited the powder, the explosion injuring him. He died March 11, 1904.

March 7, 1904, Anton Alley, machine runner, aged 31 years, single, employed by the Staunton Coal Co.'s mine No. 1, Staunton, Macoupin county, was killed falling clod at the face of his room.

March 11, 1904, Henry Nisehwitz, miner, aged 15 years, was working with his father in the Henrietta Coal Co.'s mine at Edwardsville, Madison county. He was killed by falling clod in the face of his room.

April 11, John Sapp, top laborer, aged 56 years, married, employed at Donk's Coal & Coke Co.'s mine No. 3, Troy, Madison county. Deceased fell in the shaft with a car load of props, killing him instantly. He leaves a widow and four children.

April 29, 1904, T. F. Jolly, mine manager, aged 49 years, married, employed by the Consolidated Coal Co. at the Abbey mine No. 3, Collinsville, Madison county. While passing through the shaft bottom from one side of the shaft to the other, he was caught by a descending cage, causing his death. He leaves a widow and three children.

May 14, 1904, R. J. Noversat, driver, aged 25 years, married, employed in the Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison county, was killed on a trip of loaded cars running over him. He leaves a widow.

May 18, 1904, Henry Henneman, miner, aged 25 years, married, employed by the Muren Coal & Ice Co.'s mine No. 1, New Baden, Clinton county, had his leg badly fractured by falling slate; the leg was amputated, when blood was set in, causing his death 12 days afterwards. He leaves a widow.

May 29, 1904, John Scully, timberman, aged 52 years, single, employed in Donk's Coal & Coke Co.'s mine No. 3, Troy, Madison county, was killed while engaged in taking down some slate which fell on him.

June 16, 1904, John Cullen, miner, aged 32 years, married, employed in the McK Bros. Coal & Coke Co.'s mine No. 2, Collinsville, Madison county, while opening a shot it exploded, killing him. He leaves a widow and two children.

The tables of fatal and non-fatal accidents follow, also the tables of all the deaths in the district, by counties.

Respectfully submitted,

JOHN DUNLOP,

*State Inspector of Mines, Sixth District, Centralia, Ill.*

*Fatal Casualties—Sixth District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Married.	Widow.	Children.	Single.	Dependent.	Cause of accident.
1903									
July 8	Jos. Brown.....	24	Miner.....				1		Falling coal.....
20	Peter Grasart.....	30	Driver.....				1		Falling under pit car.....
28	John Rockman.....	28	Miner.....	1	1	2		3	Falling slate.....
28	John Torosky.....	32	Miner.....	1	1			1	Falling clod.....
Aug. 7	Henry Herpine.....	37	Miner.....	1	1	4		5	Premature blast.....
29	Fred Wiesner.....	66	Miner.....	1	1	4		5	Falling slate.....
Sept. 3	Lou Boden.....	53	Miner.....	1	1	5		6	Falling down shaft.....
14	Alfred Rurey.....	36	Miner.....	1	1	5		6	Falling slate.....
Oct. 6	John Rohe.....	21	Machinist.....				1		Falling clod.....
10	Chas. Neirman.....	30	Miner.....	1	1	2		3	Falling rock.....
13	Geo. Faust.....	19	Miner.....				1		Flying coal.....
15	Joseph Bigshot.....	27	Mach. helper.....				1		Flying clod.....
20	Henry Winters.....	24	Miner.....				1		Powder explosion.....
23	Wm. Keretz.....	60	Miner.....	1	1	2		3	Premature blast.....
28	Henry Hopp.....	28	Miner.....				1		Falling slate.....
Nov. 13	Patrick Kieff.....	65	Miner.....	1	1	1		1	Falling slate.....
24	Wm. Bittlenberg.....	30	Driver.....	1	1	1		2	Pit cars.....
Dec. 4	Henry Trams.....	27	Mach. helper.....	1	1	2		3	Falling coal.....
7	Wm. Needles.....	21	Driver.....				1		Pit car.....
1904									
Jan. 5	Peter Stieber.....	37	Mach. runner.....	1	1			1	Falling coal.....
16	Fred Schroebeck.....	62	Miner.....	1	1	1		2	Falling rock.....
18	Ed. Maloney.....	30	Miner.....				1		Falling down shaft.....
Feb. 2	Peter Murphy.....	28	Laborer.....				1		Falling rock.....
12	E. L. Brown.....	36	Miner.....	1	1	1		2	Falling coal.....
16	Geo. Weindel.....	37	Teamster.....	1	1	5		6	Falling down shaft.....
25	J. W. Edwards.....	36	Miner.....	1	1			1	Premature blast.....
Mar. 3	Geo. P. Scherer.....	25	Miner.....				1		Premature blast.....
7	Anton Alley.....	31	Mach. runner.....				1		Falling coal.....
11	Henry Nischwitz.....	15	Miner.....				1		Falling clod.....
Apr. 11	John Sapp.....	56	Laborer.....	1		4		4	Falling down shaft.....
29	T. F. Jolly.....	49	Mine mgr.....	1	1	2		3	Descending cage.....
May 14	R. J. Noversat.....	25	Driver.....	1	1			1	Pit car.....
18	Hen'y Henneman.....	25	Miner.....	1	1			1	Falling slate.....
29	John Scully.....	32	Timber man.....				1		Falling shale.....
June 16	John Cullen.....	32	Miner.....	1	1	2		3	Premature blast.....
	Total, 35.....			21	20	42	14	62	

*Recapitulation of Fatal Casualties—Sixth District—July 1, 1904.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville.....	5	Drivers.....	3	Descending cage...	1	Bellev. & O'Fall. C. Co.	1
Breese.....	1	Laborers.....	2	Falling coal.....	5	Bordens Coal Co.....	1
Caseyville.....	1	Machinist.....	1	Falling clod.....	3	Centralia M. & M. Co.	4
Centralia.....	6	Mach. helper.....	2	Falling down shaft...	4	Cons. Coal Co.....	5
Central City.....	1	Mach. runner.....	2	Falling rock.....	3	Donk Bros. Coal Co.	3
Collinsville.....	3	Mine mgr.....	1	Falling slate.....	7	Henrietta Coal Co.	3
Edwardsville.....	3	Miners.....	21	Fall'g under pit car	1	Hippard Coal Co.	1
Glen Carbon.....	2	Teamster.....	1	Flying coal.....	1	Kolb Coal Co.....	1
Marissa.....	1	Timberman.....	1	Flying clod.....	1	Lumaghi Coal Co.	1
Maryville.....	3			Pit cars.....	3	Madison Coal Co.	1
Mascatah.....	1			Powder explosion.....	1	Muren Coal Co.	1
Reeks Station.....	1			Premature blast.....	5	Pittenger & Davis M. & M. Co.	3
Staunton.....	4					Royal Coal Co.	1
Trenton.....	1					Ruby Coal Co.	1
Troy.....	2					Staunton Coal Co.	1
						Trenton Coal Co.	1
Totals.....	35		35		35		35

Mortal Casualties—Sixth District—July 1, 1904.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
July 1903	3 Samuel Marsh.....	55	Miner	Belleville	Murren	1	1	7	1	Foot fractured, caught under tie.	30
	14 Adolph Leaser.....	43	Miner	Belleville	Lake Superior	1	1	1	1	Arm fractured, boiler exploded.	40
	36 M. Minner.....	36	Miner	Centralia	C. M. & M. Co.	1	1	1	1	Back injured, falling clod.	30
	20 John Schaur.....	31	Miner	Belleville	Madison	1	1	1	1	Collarbone and ribs fractured, falling coal.	30
	27 Frank Kane.....	31	Miner	Odin	Odin	1	1	1	1	Foot injured, falling coal.	30
	29 Jacob Conroy.....	72	Miner	Belleville	Lake Superior	1	1	1	1	Leg broken, flying coal.	90
	31 Luther Jones.....	16	Miner	Central City	Pittenger & Davis	1	1	1	1	Body injured internally, falling rock.	60
	3 A. J. Haines.....	20	Driver	Centralia	C. M. & M.	1	1	1	1	Leg broken, pit car.	60
	4 John Hieschi.....	27	Driver	Rentchler	Rentchler	1	1	1	1	Collarbone broken, pit cars.	50
	7 David Camer.....	39	Cager	Centralia	Cent. M. M. Co.	1	1	1	1	Body injured, timber falling down shaft.	30
Aug.	11 Benjamin Drenton.....	52	Miner	German town	German town	1	1	5	1	Back injured, falling slate.	30
	13 Henry Beilman.....	21	Miner	Breese	Breese	1	1	1	1	Leg broken, flying coal.	60
	17 A. Perry.....	24	Driver	Odin	Odin	1	1	1	1	Neck injured, pit cars.	50
	17 William Woodrow.....	37	Miner	Lebanon	Bennet	1	1	4	1	Ribs fractured, falling roof.	50
	19 F. W. Hoeinhaus.....	68	Driver	Centralia	C. M. & M.	1	1	9	1	Leg and collarbone broken, pit cars.	60
	26 Willis Fountain.....	46	Miner	Centralia	C. M. & M.	1	1	12	1	Foot broken, railroad car door.	60
	28 Charles Hanecker.....	46	Miner	Belleville	Hippard	1	1	1	1	Head injured, falling clod.	30
	3 H. V. Davis.....	25	Miner	Belleville	Royal	1	1	2	1	Leg broken, falling clod.	30
	3 Thos. Davis.....	22	Miner	Freeburg	St. Clair	1	1	1	1	Body injured, falling down shaft.	30
	28 Charles Browning.....	22	Miner	Freeburg	St. Clair	1	1	1	1	Face burned, powder explosion.	30
Sept.	28 John Browning.....	18	Miner	Freeburg	St. Clair	1	1	1	1	Face burned, powder explosion.	30
	28 A. Taylor.....	20	Driver	Troy	Donk's	1	1	1	1	Foot injured, pit cars.	30
	27 Frank Martin.....	32	Driver	Edwardsville	Henrietta	1	1	1	1	Leg broken, falling clod.	90
	7 John Track.....	24	Miner	Edwardsville	Walnut Hill	1	1	1	1	Leg broken, falling clod.	30
	7 Fred Witherspoon.....	23	Driver	Belleville	Odin	1	1	1	1	Leg injured, mining machine.	30
	8 Erwin Sims.....	23	Driver	New Baden	Murren	1	1	1	1	Back injured, pit cars.	30
	9 William Hembold.....	43	Miner	Richland	Richland	1	1	5	1	Foot injured, pit cars.	60
	14 John T. Jones.....	18	Driver	Bennet	Bennet	1	1	1	1	Leg broken, falling coal.	60
	14 Ed. Monroe.....	38	Miner	Lebanon	Bennet	1	1	5	1	Leg broken, pit cars.	70
	14 Simon Meyer.....	43	Miner	Belleville	Bennet	1	1	5	1	Ankle broken, falling slate.	45
Oct.	23 J. Everline.....	21	Miner	Worden	K. & Donnwald	1	1	1	1	H'd & shoulders injured, falling clod.	90
	8 Louis Hubbard.....	26	Miner	Glen Carbon	Madison	1	1	1	1	Thumb cut off by axe.	30
	14 August Kneis.....	19	Driver	Breese	Breese	1	1	1	1	Leg broken, coal falling from car.	50
Nov.	16										

## Non-Fatal Casualties—Continued.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
Nov.	19 J. Hendricks	36	Machine help.	Collinsville	Con. C. C.		1			Leg broken, falling coal	60
	24 Charles Webb	28	Driver	Centralla	C. M. & M.		1			Collarbone broken, pit car	40
Dec.	4 Howard Rittenner	18	Spragget	Trenton	Breese		1			Collarbone broken, pit car	40
	10 T. Donaldson	24	Driver	Breese	Breese		1			Leg broken, under pit car	105
	14 Burt Roddick	18	Driver	Staunton	DeCamp		1	6	1	Toe cut off, coal box	40
	17 John Groom	46	Mine mgr	Belleville	Green Mountain		1	5	6	Leg broken, pit cars	90
	26 Fred Dennis	17	Driver	Edwardsville	Madison		1			Collarbone broken, pit cars	42
	28 Chrs. Hurlbrink	25	Cager	Edwardsville	Con. C. Co		1			Hand injured, caught in wheel	42
	28 James Distler	20	Driver	O'Fallon	O'Fallon		1			Body injured, pit cars	30
	31 Andy Hildy	25	Miner	Collinsville	Con. C. Co		1			Leg broken, falling slate	90
	31 Thos. Loeffler	39	Driver	Marissa	Johnson		1		1	Collarbone broken, kicked by mule	30
1904	8 E. C. Overman	35	Timberman	Troy	Donks		1	2	3	Ankle dislocated, hip injured, falling clod	90
Jan.	8 B. Killore	25	Miner	Troy	Donks		1			Head injured, flying coal	30
	12 John Bartle	46	Timberman	Breese	Breese		1	2	3	Ankle broken, falling rock	98
	16 Michael Toth	20	Loader	Staunton	DeCamp		1			Back and hips injured, falling clod	30
	18 Joseph Johnson	35	Miner	Donkville	Donks		1			Back injured falling clod	30
	20 Edwin Reilly	20	Driver	Sorento	Sorento		1			Internally injured, pit cars	108
	27 Arthur Goodall	25	Driver	Belleville	Glendale		1		1	Leg injured, pit cars	90
Feb.	2 Jacob Gittler	30	Trackman	Central City	P. & S. Co		1			Leg injured, falling rock	90
	6 Fred Schultz	25	Miner	Mascontah	Kolb		1		1	Ribs fractured, body bruised, falling coal	60
	10 James Moore	30	Loader	Odin	Odin		1	1	2	Foot injured, falling coal	60
	10 Nick John	19	Miner	Worden	Kerns		1	1	2	Hand injured, falling slate	90
	15 Elmer Lively	19	Driver	Freeburg	St. Clair		1			Collar bone broken, pit cars	60
	22 William Narukes	27	Miner	Centralla	P. & D. Co		1			Hand injured, falling rock (amputated)	*
	24 Peter Gritline	40	Miner	Central City	P. & D. Co		1	3	4	Face and hands burned, shot explosion	30
Mar.	10 Caleb Rettenhaus	24	Trimmer	Belleville	Oakland		1			Ankle broken, car door	40
	11 J. A. Lagone	28	Miner	Belleville	Glendale		1			Ankle fractured, falling clod	40
	18 George Wiesel	33	Driver	Freeburg	Dutch Hollow		1		5	Collar bone broken, pit cars	40
	24 William Scully	24	Timberman	Troy	Donks		1	6	7	Body injured, pit cars	42
	28 George Duznoes	44	Mch. run	Staunton	St. L. & O. F.		1	5	3	Leg broken, small bone, falling prop.	30
	29 Fred Rueckert	37	Miner	Belleville	Breese		1		6	Leg injured, falling clod	30
Apr.	12 Benl. Milligen	21	Driver	Breese	Breese		1			Foot crushed, pit car	90
	15 Henry Grooming	26	Miner	Breese	Breese		1	1	2	Shoulder injured, falling coal	30
	20 Henry Nolmann	36	Laborer	Breese	Breese		1		1	Collarbone broken, R. R. cars	60

Month	Name	Occupation	Company	Age	Sex	Days lost	Cause of injury	Recovered
May	Thomas Slated	Mch. run	Odin	28	M	1	Leg broken, falling slate	50
	E. Braunon	Loader	Odin	23	M	1	Ankle dislocated, falling coal	50
	Edward Forcade	Miner	Odin	36	M	1	Arm injured, falling slate	50
	Fred Mundy	Miner	Freeburg	34	M	1	Leg broken, falling coal	50
	Daniel McNeil	Miner	Centralia	65	M	1	Head and back injured, falling slate	40
	Charles Jacob	Miner	Sandoval	62	M	1	Eyes injured, shot explosion	90
	Robert Church	Miner	P. & D. Co	60	M	1	Leg broken, kicked by mule	30
	Henry Williams	Teamster	Oak Hill	41	M	1	Ankle fractured, falling coal	30
	J. Vermilion	Miner	Belleville	50	M	1	Head and body injured, falling slate	50
	Charles Creiter	Miner	Glen Carbon	21	M	1	Foot mashed, falling rock	40
June	W. Miles	Miner	Marissa	40	M	1	Body injured, falling slate	60
	Alvin Theman	Cager	Sandoval	38	M	1	Body injured, descending cage	30
	Charles Legge	Miner	P. & D. Co	42	M	1	Finger mashed, pit car	30
	Totals			47		34	122	164

\* Not recovered or working July 1, 1904.

Total number injured	81	Total days lost by men recovered	3,882
Not recovered or working July 1, 1904	6	Average days lost per man	59
Recovered June 30, 1904	75		

*Recapitulation of Non-Fatal Casualties—Sixth District—1904.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Belleville.....	14	Cagers.....	3	Ax.....	1	Bennet Coal Co.....	3
Bennet.....	1	Drivers.....	22	Boiler explosion...	1	Breese Coal Co.....	1
Breese.....	7	Laborers.....	4	Car door (R. R.)....	3	Centralia M. & M. Co.	3
Centralia.....	11	Loaders.....	3	Cage wheel.....	1	Consolidated Coal Co.	1
Central City...	3	Machine help...	2	Cage descending...	1	DeCamp Coal Co.....	2
Collinsville...	2	Machine run...	2	Coal box.....	1	Donk Bros. Coal Co...	1
Donkville.....	1	Miners.....	35	Falling coal.....	11	Dutch Hollow Coal Co	1
Edwardsville...	4	Mine m'grs....	2	Falling clod.....	11	Enterprise Coal Co...	1
Freeburg.....	5	Spragger.....	1	Falling coal fr'm car	1	Germantown Coal Co.	1
Germantown...	1	Teamster.....	1	Falling down shaft.	2	Glendale Coal Co....	1
Glen Carbon...	2	Timbermen...	3	Falling prop.....	1	Henrietta Coal Co....	1
Lebanon.....	2	Trackman.....	1	Falling rock.....	5	Hippard Coal Co.....	1
Marissa.....	2	Trimmers.....	2	Falling roof.....	1	Johnson Coal Co....	1
Maryville.....	1			Falling slate.....	9	Kerns - Donnewald C.	3
Mascoutah...	1			Flying coal.....	3	Co.....	1
New Baden....	1			Mining machine...	1	Kolb Coal Co.....	1
Odin.....	6			Mule kick.....	2	Lake Superior C. Co.	1
O'Fallon.....	1			Pit cars.....	21	Madison Coal Co....	1
Rentchler....	1			Powder explosion...	2	Marissa Coal Co.....	1
Richland.....	1			Shot explosion....	2	Murren Coal Co.....	1
Sandoval.....	3			Tie.....	1	Oak Hill Coal Co....	1
Sorento.....	1					Oakland Coal Co....	1
Staunton.....	3					Odin Coal Co.....	1
Trenton.....	1					O'Fallon Coal Co....	1
Troy.....	4					Pittenger & Davis M.	1
Worden.....	2					Co.....	1
						Richland Coal Co....	1
						Royal Coal Co.....	1
						St. Clair Coal Co....	1
						St. Clair & O'Fallon	1
						Coal Co.....	1
						Sandoval Coal Co....	1
						Sorento Coal Co....	1
						Staunton Coal Co....	1
						Sunlight Coal Co....	1
						Trenton Coal Coal...	1
						Walnut Hill Coal Co..	1
Total.....	81		81		81		81

*Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost with Averages and Percentages—1, 1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
broken.....	4	3	1	15	223	56	4.94
dislocated.....	2	2	.....	5	140	70	2.47
fractured.....	2	1	1	3	70	35	2.47
injured.....	2	2	.....	11	130	65	2.47
injured.....	5	3	2	12	60	12	6.18
injured.....	9	6	3	23	370	41	11.11
ribs broken.....	9	3	6	8	482	54	11.11
red.....	1	1	.....	1	90	90	1.23
red.....	3	1	2	4	90	30	3.71
washed.....	1	1	.....	4	30	30	1.23
ured.....	2	2	.....	10	90	45	2.47
red.....	6	2	4	3	320	53	7.41
ured.....	3	1	2	2	132	44	3.70
ured.....	5	4	1	15	190	38	6.18
ten.....	17	10	7	26	1,015	60	21.00
collarbone broken.....	1	.....	1	.....	60	60	1.23
red.....	3	1	2	6	150	50	3.70
red.....	1	1	.....	2	50	50	1.23
ured.....	2	1	1	5	90	45	2.47
injured.....	1	1	.....	2	30	30	1.23
it off.....	1	.....	1	.....	30	30	1.23
off.....	1	1	.....	7	40	40	1.23
<b>Total, averages and percentages.....</b>	<b>81</b>	<b>47</b>	<b>34</b>	<b>164</b>	<b>3,882</b>	<b>51.8</b>	<b>100.00</b>



*Bond County—Sixth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES,							
1	Sorento.....	Sorento.....	176, 116	1, 869	125, 451	.....	1, 256
	Totals.....	.....	176, 116	1, 869	125, 451	.....	1, 256

Mines in 1903—1.  
Mines in 1904—1.

*Clinton County—Sixth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Breeze Coal Co.....	Breeze.....	271,667	162,501	45,830	.....	.....
2	Consolidated Coal Co.....	Breeze.....	174,807	133,869	28,129	.....	.....
3	Muren Coal & Ice Co.....	New Baden.....	170,469	.....	102,763	.....	20,372
4	Trenton Coal Co.....	Trenton .....	149,816	.....	98,135	12,649	9,726
5	Consolidated Coal Co.....	Trenton .....	86,768	333	58,705	.....	.....
6	Germantown Coal Co.....	Germantown..	71,988	44,910	12,159	2,059	2,450
Totals.....			925,515	341,613	345,721	14,768	32,548

Mines in 1907—6.  
Mines in 1904—6.

*Bond County—Sixth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	489	\$224,290	166	83	249	166,387	.....	2,836	6,893	200	109,263	1
	489	\$224,290	166	83	249	166,387	.....	2,836	6,893	200	109,263	1

RE—Price paid for hand mining from July 1, 1903 to April 1, 1904, \$0.55; from April 1, July 1, 1904, \$0.52. Average price for year \$0.5425 per ton.

*Clinton County—Sixth District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
	22,248	\$239,350	140	48	188	227,267	36,000	6,000	2,400	250	271,667	1
	.....	148,322	150	45	195	167,027	.....	1,788	5,992	138	174,807	2
	24,558	143,069	140	71	211	157,938	.....	2,400	10,131	150	.....	3
	11,983	155,757	140	80	220	126,068	.....	10,049	13,699	230	.....	4
	.....	118,739	80	57	137	72,016	.....	3,957	10,795	156	.....	5
	5,350	62,006	65	25	90	62,438	.....	4,200	5,350	238	71,988	5
	64,139	\$867,343	715	326	1,041	812,874	36,000	28,394	48,367	194	518,462	

RE—Price paid for hand mining at Breese Coal Co. and Consolidated Coal Co. at Breese July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904, \$0.53. mantown Coal Co., from July 1, 1903 to April 1, 1904, \$0.60; from April 1, 1904 to July 1, 57. Average for year \$0.5494 per ton.

Price paid for machine mining at Trenton Coal Co., and Consolidated Coal Co., Trenton July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904 \$0.52.

Price paid for machine mining at Muren Coal and Ice Co., from July 1, 1903 to April 1, 1904, \$0.55; from April 1, 1904 to July 1, 1904, \$0.48. Average price paid for machine mining for 5383 per ton.

*Madison County—Sixth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Donk Bros. Coal & Coke Co. No. 1	Collinsville...	475,179	55,629	291,683	1,701	77
2	Donk Bros. Coal & Coke Co. No. 2	Collinsville...	390,017	53,478	216,787	18,103	136
3	Staunton Coal & Mining Co. No. 1	Staunton.....	315,853	83,419	157,065	4,635	21,319
4	Donk Bros. Coal & Coke Co. No. 3	Troy.....	291,302	44,459	150,228	8,696	9,835
5	Madison Coal Co. No. 4.....	Glen Carbon..	245,736	47,086	139,704	.....	9,909
6	Lumaghi Coal Co. No. 2.....	Collinsville..	232,820	8,948	154,801	4,176	4,688
7	Madison Coal Co. No. 2.....	Glen Carbon..	225,412	11,053	159,855	.....	4,279
8	Madison Coal Co. No. 3.....	Edwardsville..	121,136	3,122	85,487	39	.....
9	Kerns-Donniewald Coal Co. No. 1	Worden.....	190,015	49,964	102,632	.....	10,294
10	Consol. Coal Co. (Heinz Bluff)	Collinsville..	149,101	58,446	68,557	.....	.....
11	Consol. Coal Co. (Abbey No. 3)	Collinsville..	131,002	43,968	62,928	.....	.....
12	Henrietta Coal Co. No. 1.....	Edwardsville..	68,484	.....	46,207	.....	13,500
13	Consol. Coal Co. (Brookside).....	Troy.....	45,058	197	29,476	.....	.....
14	Lumaghi Coal Co. No. 3.....	Collinsville..	39,649	38,875	83	24	8
15	DeCamp Coal Mining Co. No. 1.	Staunton.....	38,850	8,500	16,500	1,800	3,130
16	Interstate Coal Mining Co. No. 1.	Worden.....	27,353	18,929	5,004	.....	1,234
Totals.....			2,986,967	526,073	1,687,027	39,174	78,609

LOCAL MINES.							
1	Edw'sville Home Trade Coal Co.	Edwardsville...	10,540	154	7,725	...	444
2	Bullock Bros. Coal Co.	Collinsville...	7,162	...	5,131	...	1,367
3	Perry Meyer	Bethalto	5,000	...	5,000	...	...
4	George Kabel	Moro	2,644	...	2,644	...	...
5	James Hill	Fosterburg	2,240	...	2,240	...	...
6	Frank Eccles	North Alton	2,000	...	2,000	...	...
7	W. F. Backs	Carpenter	1,365	...	1,365	...	...
8	Peter Sydal	North Alton	1,079	...	1,079	...	...
9	John Spencer	Bethalto	716	...	716	...	...
10	George Raines	North Alton	1,175	...	1,130	...	...
11	Fred Hauke	Fosterburg	1,120	...	1,120	...	...
12	Herman & Housman	Fosterburg	800	...	800	...	...
13	Abbey Coal Co. No. 1	Collinsville...	6,000	...	4,000	...	1,000
14	J. R. Richardson	Moro	400	...	400	...	...
15	Sam McDonald	Moro	400	...	400	...	...
16	F. R. Fredericks	Upper Alton	385	...	385	...	...
17	Theo. Schmeler	Prairie town	370	...	370	...	...
18	Henry Golike	Fosterburg	320	...	320	...	...
19	Oscar Meyer	North Alton...	209	...	209	...	...
Totals			43,925	154	37,034	...	2,811
Totals—35 mines			3,030,892	526,227	1,724,061	39,174	81,300

Mines in 1903, 31.  
 New mines, 7.  
 Abandoned mines, 3.  
 Mines in 1904, 35.

*Madison County—Sixth District—1904—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
069		\$399,008	360	170	530	463,318	2,553	1,193	8,115	264	475,179	1
513		328,911	230	152	382	378,909		1,525	9,583	249	68,498	2
609	35,807	278,845	206	102	308	300,396	6,990	2,417	6,050	222		3
084		297,592	244	148	392	280,812		3,682	6,808	246	291,302	4
890	31,147	212,306	178	65	243	227,330	3,370	72	14,964	232		5
166	18,041	193,019	140	73	213	229,379			3,441	240		6
942	16,253	205,484	165	70	235	209,220		3,977	12,215	240		7
488		112,691	100	55	155	106,638	979	5,653	7,866	261	2,947	8
125		219,727	165	57	222	180,747		5,268	4,000	256		9
068		124,865	76	48	124	139,202		2,360	7,539	173		10
106		107,533	75	77	152	88,467	25,007	7,402	10,126	171		11
776		59,695	48	19	67	59,182		7,085	2,217	218	18,911	12
385		44,615	42	27	69	40,168		1,761	3,129	153	45,058	13
24	585	35,149	40	33	73	39,063			586	200		14
900		34,578	35	19	54	36,700		200	1,950	200	4,000	15
16		26,629	40	18	58	25,574		126	1,653	142	21,883	16
361	101,833	\$2,650,647	2,144	1,133	3,277	2,805,105	38,899	42,721	100,242	217	927,778	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.55; n April 1, 1904, to July 1, 1904, \$0.52; average price for year, \$0.5425 per ton. Price paid for chine mining, shipping mines, from July 1, 1903, to April 1, 1904, \$0.48; from April 1, 1904, to y 1, 1904, \$0.45; average price for year, \$0.4725 per ton.

1,217		\$14,821	15	9	24			9,640	900	300	10,540	1
664		11,196	6	4	10			6,498	664	289	7,162	2
		7,500	6	1	7			5,000		200	5,000	3
		3,966	6	1	7			2,644		200	2,644	4
		3,360	5	1	6			2,240		200	2,240	5
		4,000	7	1	8			2,000		240	2,000	6
		2,048	3	1	4			1,365		200	1,365	7
		1,883	7	1	8			1,079		200	1,079	8
		1,074	2	1	3			716		200	716	9
45		2,238	9	3	12			1,175		200	1,175	10
		1,680	5	1	6			1,120		200	1,120	11
		1,200	4	1	5			800		150	800	12
1,000		10,000	6	5	11			5,000	1,000	200	6,000	13
		600	3	1	4			400		150	400	14
		600	3	2	5			400		200	400	15
		770	2	1	3			385		96	385	16
		555	3	1	4			370		150	370	17
		480	4	1	5			320		75	320	18
		418	2	1	3			209		70	209	19
1,926		\$68,449	98	37	135			41,361	2,564	205	43,925	
1,287	101,833	\$2,749,096	2,242	1,170	3,412	2,805,105	38,899	84,082	102,806		971,708	

NOTE—Average price paid for hand mining, local mines, \$0.7472 per ton.

*Marion County—Sixth District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Pittenger & Davis, Nos. 3-14.....	Centralia.....	431,247	60,944	235,447	.....	11,000
2	Central Mining & Mfg. Co., No. 2.....	Centralia.....	243,171	5,931	172,296	.....	16,000
3	Odin Coal Co., No. 1.....	Odin.....	211,174	211,174	.....	.....	.....
4	Sandoval Coal Co., No. 1.....	Sandoval.....	182,543	76,209	74,434	.....	.....
5	Kinmundy Coal Co., No. 1.....	Kinmundy.....	10,745	1,050	6,455	.....	.....
6	Salem Coal Co., No. 1.....	Salem.....	4,854	4,854	.....	.....	.....
Totals.....			1,083,734	360,162	488,632	.....	27,500

Mines in 1903, 6.

Mines in 1904, 6.

*Marion County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
77,164	46,600	\$376,045	305	159	464	279,862	102,637	20,353	28,395	250	431,247	1
27,505	21,015	228,102	185	117	302	152,541	69,477	14,829	6,324	235	243,171	2
.....	.....	206,960	155	85	240	200,086	.....	4,512	6,576	265	.....	3
31,900	.....	177,226	150	70	220	176,903	.....	1,980	3,660	249	182,543	4
3,240	.....	9,598	23	19	42	7,084	.....	1,894	1,767	150	10,745	5
.....	.....	5,825	8	6	14	570	.....	2,939	1,345	100	4,854	6
139,809	67,615	\$1,003,746	828	456	1,282	817,046	172,114	46,507	48,067	208	872,560	

NOTE—Price paid for hand mining, \$0.49, \$0.50 and \$0.55; average price for year, \$0.4961 per ton. Price paid for machine mining, \$0.43 per ton.

## St. Clair County—Sixth District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine run.	Lump.	Egg.
SHIPPING MINES.						
1	St. Louis & O'Fallon C. Co., No. 1	Belleville.....	318,579	318,579		
2	Royal Coal & Mining Co., Royal	Belleville.....	172,442	62,420	83,426	
3	Muren Coal & Ice Co., No. 1.....	Belleville.....	159,771	159,771		
4	Walnut Hill Coal Co., Avery	Belleville.....	115,457		88,897	
5	Kolb Coal Co., No. 1.....	Mascoutah.....	114,440	43,059	52,388	
6	Superior Coal & Min. Co., No. 1	Belleville.....	109,199		82,924	
7	Madison Coal Co., No. 1.....	Belleville.....	101,883	7,828	69,747	
8	Joseph Taylor Coal Co., (Taylor)	O'Fallon.....	95,602	71,687	14,657	
9	Glendale Coal & Min. Co., No. 1	Belleville.....	92,000		70,500	
10	Mo. & Ill. Coal Co., (Rentchler)	Belleville.....	91,337	33,471	45,269	
11	Dutch Hollow C. Co., (Oakland)	Belleville.....	87,428	4,313	59,335	
12	Borders Coal Co., No. 1.....	Marissa.....	86,050	18,240	47,460	
13	Kolb Coal Co., (Vinegar Hill)	Mascoutah.....	80,590		66,507	
14	Valley Coal & Min. Co., (Birkner)	East St. Louis.....	80,000		56,000	
15	Daniel Tildorpt, (Marissa)	Marissa.....	78,329	26,564	39,527	
16	Joseph Taylor (Mentor)	O'Fallon.....	75,013	4,875	49,280	
17	Oak Hill Coal Co.	Belleville.....	73,959	2,667	56,794	
18	Eureka Coal Co., (Eureka)	Marissa.....	71,265	32,236	30,012	
19	Dutch Hollow Coal Co., (Randle)	Freeburg.....	69,253	2,179	52,012	
20	Summit Coal Co.	Belleville.....	68,900	25,000	35,200	
21	Fire Coal & Mining Co.	Lenzburg.....	67,362		50,421	
22	Belleville & O'Fallon Coal Co.	Belleville.....	66,992		52,023	
23	Lebanon Coal & Mining Ass'n	Lebanon.....	60,793		42,460	4,13
24	The O'Fallon Coal & Mining Co. (Darrow)	O'Fallon.....	57,979	9,726	28,864	1,95
25	Consolidat'd Coal Co. (Shureman)	Belleville.....	57,451	4,051	40,494	
26	Johnson Coal Co., O. K.	Marissa.....	52,652	10,588	34,998	
27	George Hippard, No. 1.....	Belleville.....	49,544	6,352	31,550	
28	Joseph Guest & Sons	Belleville.....	48,758	48,758		
29	Wm. Ratican, Ruby	Caseville.....	46,700	10,200	27,500	
30	Mo. & Ill. Coal Co., Wilderman	Belleville.....	46,688	7,661	26,614	
31	Consolidated C. Co., (Green Mt.)	Belleville.....	46,676	5,113	33,083	
32	Consolidated C. Co., (White Oak)	Marissa.....	46,383	38,314	4,753	
33	Consolidated Coal Co., Gartside, No. 4	Belleville.....	45,938	4,121	32,080	
34	Mo. & Ill. Coal Co., St. Clair.....	Belleville.....	45,012	9,469	24,512	
35	Highland Coal Co.	Belleville.....	36,453		24,763	
36	Lake Superior Coal Co., Branch.	Belleville.....	35,734		25,014	
37	Enterprise Min. Co., (Rentchler)	Rentchler.....	33,600	11,500	20,000	
38	George Hippard (Walnut Valley)	Belleville.....	31,617	7,337	19,896	
39	Dutch Hollow C. Co., (Advance)	Marissa.....	30,864	4,562	19,854	
40	Glendale Coal & Min. Co., No. 2	Belleville.....	30,650		26,100	
41	Skellet Coal Co.	Belleville.....	30,000	5,000	24,000	
42	Humboldt Coal Co.	Belleville.....	30,000		25,000	
43	Sunlight Coal Co.	Freeburg.....	29,925	134	21,315	
44	Consolidated Coal Co., Richland	Belleville.....	25,886	16,717	5,757	
45	Lenz Coal & Min. Co., Harmony	Belleville.....	19,683	5,117	10,982	
46	Donk Bros. Coal & Coke Co.	Belleville.....	18,512	10,925	4,780	
47	Pittsburg Mining Co.	Belleville.....	16,680		15,900	
48	Consolidated Coal Co., Rose Hill	Belleville.....	16,148		12,289	
49	Fred Murphy	Belleville.....	16,000	16,000		
50	Millstadt Coal Co.	Millstadt.....	15,000		12,000	
51	Joseph Taylor, St. Ellen	O'Fallon.....	10,980	10,980		
52	Dutch Hill Coal Co.	New Athens.....	10,000		8,000	
53	Lenz Coal & Min. Co., (Shiloh)	Belleville.....	8,920	8,220		
54	Chas. Hortmann	Belleville.....	25,885		19,000	
55	Beatty Coal Co.	Mascoutah.....	4,704	4,704		
Totals .....			3,357,696	1,068,438	1,723,927	5,98

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903, to April 30, 1904, \$0.55; from April 1, 1904, to July 1, 1904, \$0.52; average price for year, \$0.5425 per ton.

## St. Clair County—Sixth District—Continued.

Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	\$238,934	170	61	231	314,979	1,856	20	1,724	250	318,579	1
.....	153,423	130	27	157	163,442	.....	.....	9,000	250	17,680	2
.....	123,024	120	66	186	140,579	8,461	3,292	7,439	250	159,771	3
.....	107,838	70	24	94	113,657	.....	.....	300	210	.....	4
.....	108,229	94	28	122	67,931	35,729	6,776	4,004	235	114,440	5
.....	78,836	90	26	116	107,099	.....	.....	2,100	250	.....	6
.....	88,798	65	28	93	94,500	4,000	1,383	3,000	205	101,883	7
.....	72,584	72	25	97	88,282	.....	3,640	3,680	205	95,602	8
.....	90,520	78	28	106	82,100	.....	2,800	7,100	230	27,500	9
.....	80,392	68	19	87	88,375	.....	282	2,680	182	91,337	10
.....	74,630	50	18	68	83,817	.....	930	2,681	272	20,688	11
.....	74,796	50	15	65	81,865	.....	3,350	835	185	86,050	12
.....	78,908	65	11	76	79,890	.....	.....	700	190	80,590	13
.....	69,400	45	17	62	78,150	.....	50	1,800	200	70,000	14
.....	69,509	44	21	65	76,787	.....	292	1,250	214	78,329	15
.....	65,924	80	35	115	68,973	.....	1,890	4,180	168	75,013	16
.....	73,280	36	24	60	70,630	.....	811	2,518	254	.....	17
.....	62,511	47	25	72	67,582	.....	1,733	2,000	203	71,265	18
.....	62,174	50	14	64	65,213	.....	1,278	2,762	198	69,253	19
.....	57,735	45	16	61	68,070	.....	130	700	238	68,900	20
.....	58,024	49	20	69	65,397	.....	665	1,300	209	67,362	21
.....	60,232	47	18	65	54,196	.....	7,627	5,169	229	66,962	22
.....	57,612	90	25	115	48,747	.....	6,012	6,034	216	.....	23
.....	53,214	37	27	64	53,485	.....	1,851	2,643	226	.....	24
.....	42,507	35	14	49	52,617	.....	864	3,970	166	.....	25
.....	48,995	43	15	58	51,215	.....	.....	1,437	213	52,652	26
.....	2,457	41,741	50	20	47,087	.....	.....	2,457	225	49,544	27
.....	40,469	78	22	100	48,355	.....	153	259	200	48,758	28
.....	44,695	47	17	64	42,000	.....	100	4,600	245	46,700	29
.....	39,460	35	14	49	44,708	.....	60	1,920	187	46,688	30
.....	35,474	25	12	37	41,956	.....	472	4,248	161	.....	31
.....	31,927	40	10	50	43,571	1,201	14	1,597	140	46,383	32
.....	34,158	40	10	50	40,354	.....	337	5,247	152	.....	33
.....	3,269	43	12	55	41,761	.....	12	3,269	180	45,042	34
.....	37,959	30	9	39	20,461	1,194	7,689	7,109	280	36,453	35
.....	28,417	25	9	34	33,634	.....	1,500	600	235	35,734	36
.....	27,505	18	9	27	33,000	.....	.....	600	282	33,600	37
.....	28,035	45	25	70	21,408	7,565	854	1,790	272	31,617	38
.....	26,659	30	9	39	27,727	.....	1,810	1,327	215	30,864	39
.....	28,538	30	8	38	24,550	.....	3,300	2,800	210	30,650	40
.....	29,500	30	8	38	28,000	.....	.....	2,000	150	30,000	41
.....	30,000	28	7	35	24,000	.....	4,000	2,000	200	30,000	42
.....	26,049	23	9	32	26,372	.....	2,803	750	165	29,925	43
.....	17,736	25	10	35	24,391	.....	14	1,481	155	25,886	44
.....	18,111	50	15	65	18,698	.....	.....	985	95	6,322	45
.....	16,204	24	24	48	16,712	.....	.....	1,800	96	18,512	46
.....	13,749	17	9	26	13,400	.....	3,000	280	250	16,680	47
.....	12,025	20	9	29	14,113	.....	.....	2,035	107	.....	48
.....	12,000	12	5	17	14,000	.....	2,000	.....	300	16,000	49
.....	13,350	12	4	16	12,000	.....	2,000	1,000	200	15,000	50
.....	7,686	17	12	29	9,715	265	.....	1,000	94	10,980	51
.....	9,250	12	4	16	6,500	.....	3,000	500	100	10,000	52
.....	8,124	15	5	20	8,220	.....	.....	700	120	8,920	53
.....	18,821	20	6	26	18,700	.....	7,085	100	200	25,885	54
.....	3,293	10	3	13	4,497	.....	.....	207	132	4,704	55
34,801	\$2,809,417	2,621	963	3,584	3,077,418	60,271	86,049	133,958	206	2,464,733	

—Price paid for machine mining, shipping mines, from July 1, 1903, to April 1, 1904, April 1, 1904, to July 1, 1904, \$0.45; average price for year, \$0.4725 per ton.



*St. Clair County—Sixth District—1904—Continued.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES.				
			Total.	Mine run.	Lump.	Egg.	Net.
LOCAL MINES.							
1	Frank Sergent.....	Belleville.....	13,246	8,728	3,627	.....	100
2	August Ebel.....	Belleville.....	8,000	.....	7,500	.....	.....
3	James Taylor.....	Belleville.....	6,000	6,000	.....	.....	.....
4	James Beatty.....	Mascoutah.....	4,850	4,850	.....	.....	.....
5	Tower Grove Coal Co.....	Belleville.....	6,000	6,000	.....	.....	.....
6	Wm. Pestor.....	Millstadt.....	4,000	4,000	.....	.....	.....
7	John Harst.....	Belleville.....	4,000	4,000	.....	.....	.....
8	J. E. Young.....	French Village.....	6,000	5,500	.....	.....	.....
9	Diedrich Bros.....	Freeburg.....	2,000	2,000	.....	.....	.....
10	Georgetown Road Coal Co.....	Belleville.....	2,500	2,500	.....	.....	.....
11	John Marshall.....	Caseyville.....	2,000	2,000	.....	.....	.....
12	Fred Irwin (Grossman).....	Smithton.....	975	975	.....	.....	.....
13	Benj. Johnson.....	Belleville.....	777	777	.....	.....	.....
14	Geo. Schmidt.....	Millstadt.....	425	425	.....	.....	.....
Totals .....			60,773	47,755	11,127	.....	100
Totals 69 mines.....			3,418,469	1,116,193	1,735,054	5,986	111,303

Mines in 1903, 69.

New mines, 3.

Abandoned mines, 3.

Mines in 1904, 69.

*St. Clair County—Sixth District—Concluded.*

MINE NO.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
8		\$15,768	8	5	13			11,542	1,704		13,246	1
0		11,395	6	4	10			7,500	500		8,000	2
		9,000	5	4	9			6,000			6,000	3
		6,548	4	3	7			4,750	200		4,850	4
		7,200	7	6	13			6,000			6,000	5
		6,000	8	2	10			4,000			4,000	6
		6,000	4		6			4,000			4,000	7
0		8,375	5	2	7			6,000			5,500	8
		3,000	3	1	4			2,000			2,000	9
		3,750	3	2	5			2,500			2,500	10
		3,000	3	2	5			2,000			2,000	11
		1,463	3	1	4			975			975	12
		1,165	2	1	3			777			777	13
		637	1		1			425			425	14
9		\$83,281	62	35	97			58,469	2,304		60,773	
7	31,801	\$2,932,698	2,683	998	3,681	3,077,418	60,271	144,518	136,262		2,458,514	

NOTE—Price paid for hand mining, local mines, from July 1, 1903, to April 1, 1904, \$0.55; April 1, 1904, to July 1, 1904, \$0.52; average price for year, \$0.5425 per ton; 1,202 mined by day.

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bond .....	1	166,116	1,869	125,451	.....	1,256	47,051	489	\$ 224,290
Clinton .....	6	925,515	341,613	345,721	14,708	32,548	126,786	64,139	867,343
Madison .....	16	2,986,967	526,073	1,687,027	39,174	78,499	554,361	101,833	2,680,647
Marion .....	6	1,083,734	360,162	488,632	.....	27,516	139,809	67,615	1,003,746
St. Clair .....	55	3,357,696	1,068,438	1,723,927	5,986	111,205	416,339	31,801	2,869,417
Totals and averages	84	8,530,028	2,298,155	4,370,758	59,868	251,024	1,284,346	265,877	\$7,645,443

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Madison .....	19	43,925	154	37,034	.....	2,811	3,926	.....	\$63,449
St. Clair .....	14	60,773	47,755	11,127	.....	103	1,788	.....	83,261
Totals and averages	33	104,698	47,909	48,161	.....	2,914	5,714	.....	\$151,710
Totals, district—all mines .....	117	8,634,726	2,346,064	4,418,919	59,868	253,938	1,290,060	265,877	\$7,797,173

Whole number of mines reported in 1903, 113.

Number of new mines opened during the year, 10.

Number of mines exhausted or abandoned during the year, 6.

Whole number of mines reported for 1904, 117.

*Sixth District—1904—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machines.	Hand mining.	Machine mining.		
166	83	249	166,387	.....	2,836	6,893	200	109,263	66,853	\$0.5425	\$0.34	5	1
715	326	1,041	812,754	36,000	38,394	47,367	194	518,462	407,053	0.5494	0.5383	34	6
2,144	1,133	3,277	2,805,105	38,899	42,721	100,242	217	927,778	2,059,189	0.5425	0.4725	63	16
826	456	1,282	817,046	172,114	46,507	48,067	208	872,560	211,174	0.4981	0.43	32	6
2,621	963	3,584	3,077,418	60,271	86,049	133,958	206	2,464,733	892,963	0.5425	0.4725	141	52
6,472	2,961	9,433	7,678,710	307,284	206,507	337,527	208	4,892,796	3,637,232	\$0.5352	\$0.4749	275	81

*Sixth District—1904—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
98	37	135	.....	.....	41,361	2,564	205	43,925	.....	\$0.7472	.....	3	2
62	35	97	.....	.....	58,469	2,304	200	60,773	.....	0.5425	.....	7	4
160	72	232	.....	.....	99,830	4,868	205	104,698	.....	\$0.6283	.....	10	6
6,632	3,033	9,665	7,678,710	307,284	306,337	342,395	204	4,997,494	3,637,232	.....	\$0.4749	285	87

## SEVENTH INSPECTION DISTRICT—1904.

## NINTH ANNUAL REPORT.

Counties—Franklin, Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, Williamson.

EVAN D. JOHN, *Inspector*, Carbondale.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—As required by section 12 of the general mining law of the State, I submit herewith the ninth annual report of the coal mines located in the seventh inspection district for the year ended June 30, 1904. This district embraces 11 coal producing counties, as follows: Franklin, Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington and Williamson; Franklin county appears this year for the first time, while Wabash county makes no report of coal mined.

The tables of the different counties comprise a complete record in the district, showing the number of mines, also new mines and mines that have been abandoned; the average number of persons employed at each mine; the total tons of coal produced, divided into different grades, mine run, lump, egg, nut, pea or screening, and slack or waste; the average value per ton of each grade at the mine, and the aggregate value of the product of each mine and county, and for the district; the price paid for mining at each mine with the average for the county and district; the fatal and non-fatal accidents, and causes of same; the number of wives made widows, and the number of children made fatherless; the average number of days each mine was in operation; the quantity of powder used; the tons of coal cut by machines and mined by hand; the number of mines using machines, and the number of machines in use.

The following summary gives in detail the salient points contained in the report:

Number of counties producing coal.....	11
Total number of mines.....	118
Number of shipping mines.....	71
Number of local mines.....	47
Number of mines abandoned during the year.....	1
Number of new mines opened during the year.....	1
Number of mines using machines.....	108
Number of machines in use.....	5,153
Tons of coal cut by machines.....	6,150,000
Tons of coal mined by hand.....	1,000,000
Total tons of coal produced.....	7,150,000
Tons of mine run.....	1,000,000
Tons of lump.....	30
Tons of egg.....	0
Tons of nut.....	0
Tons of pea or screenings.....	0
Tons of slack or waste.....	0
Aggregate value of total product.....	1,000,000
Average value of mine run coal per ton at mines.....	1,000,000
Average value of lump coal per ton at mines.....	1,000,000
Average value of egg coal per ton at mines.....	1,000,000

ge value of nut coal per ton at mines.....	\$1.0154
ge value of pea or screenings per ton at mines.....	\$0.6424
ge value of slack or waste per ton at mines.....	\$0.3244
er of miners.....	5,354
er of other employes underground.....	1,507
er of boys employed underground.....	203
er of employes above ground.....	1,003
number of employes.....	8,067
oaded on cars for shipment.....	5,487,276
supplied to locomotives at mines.....	262,475
old to local trade.....	320,904
consumed or wasted at mines.....	218,224
ge number of days of operation for shipping mines.....	207
er of kegs of powder used for blasting coal.....	166,728
er of kegs of powder used for other purposes.....	422
er of fatal accidents.....	30
er of non-fatal accidents.....	84
er of widows.....	17
er of children made fatherless.....	45
er of tons of coal produced to each fatal accident.....	206,298
er of tons of coal produced to each non-fatal accident.....	73,677
er of persons employed to each fatal accident.....	269
er of persons employed to each non-fatal accident.....	96

Comparative table is presented showing the total tons produced in each ty for the years 1903 and 1904, with the increase and decrease:

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL IN TONS.		Increase..	Decrease.
	1903.	1904.		
lin.....		4,240	4,240	
tin.....	45,400	68,411	23,011	
ilton.....	700	2,000	1,300	
on.....	972,284	812,641		159,643
rson.....	15,100	29,967	14,867	
son.....	2,545	3,050	505	
r.....	1,081,751	1,240,174	208,423	
olph.....	478,125	620,280	142,155	
e.....	354,172	299,720		54,452
ash.....	4,800			4,800
ington.....	57,956	19,930		28,026
iamson.....	2,711,787	3,010,635	298,868	
Total.....	5,674,600	6,111,048	693,369	256,921

Net increase ..... 436,448 tons.

he counties of Williamson, Perry and Randolph give substantially the en-crease in the district, which is 436,448 tons for the year. Jackson ty reports a less tonnage than for the past five years; last year it stood 1 the list of 17 of the counties in the State, having a production of over 000 tons.

#### NEW MINES.

ie Western Coal & Mining Company, general offices in St. Louis, has ed a new mine at Bush, Williamson county. The shaft is 9¼ by feet in the clear; the seam is No. 7 of the general series; 40 miners, s have been erected, also a hotel, office building and store. A coal ng plant has been erected with a capacity of 60 tons an hour. Two c haulage motors have been installed.

The Eldorado Coal & Coke Co., Eldorado, Saline county, has opened a new mine at that place; the mine is located on the Louisville & Nashville, Illinois Central and Big Four railroads. The mine has first-class equipment; two engines are each 18x34, directly connected to a six-foot drum, each of 100 horse power; the boilers are 20 feet by 72 inches, having six-inch rivet flues, and estimated at 150 horse power; Worthington duplex pumps are used to feed the boilers.

The Harrisburg-Big Muddy Coal Co., general offices in Chicago, has opened a new mine, located on the Big Four railroad, two miles northeast of Harrisburg, Saline county. The company has an area of 800 acres, and has constructed a plant that will have a capacity to hoist 2,000 tons a day. The shaft is 9x13 feet in the clear, and the escapement shaft is 8x13 feet. The shaft is sunk to No. 5 seam, which will average five one-half feet in thickness; the depth of the mine is 420 feet, which is over 100 feet lower than any other mine in this locality. The mine is equipped with a pair of Litch engines 24x36 and an eight-foot drum, also two Erie boilers with a capacity of 300 horsepower; two additional boilers of the same kind will be put in. The tipples and buildings are covered with corrugated iron; a pipe line is put in to guard against fire; the tipples will be furnished with a double set of Duncan screens and cages. The shaft top and buildings are lighted with electricity. The company will erect at once a modern bath house for the men, with stationery tubs, supplied with hot and cold water; individual lockers will also be provided; this building will have steam heat. The shaft will be completed about the middle of next October, when the sinking of the air shaft will be commenced.

The Manufacturers' Fuel Co. was organized during the past year, and succeeds the Weaver Coal & Coke Co. The new company now own one mine at Pana, Christian county, one at Nilwood, Macoupin county, two at Duquoin, one at Pinckneyville, and two at St. John, Perry county, and one at Decatur, Macon county.

The Joseph Winkle Mining & Realty Co., has sunk a new shaft at Oak Ridge, Perry county. This location is a few miles northwest of Pinckneyville, on the Illinois Central railroad. The depth of the shaft is 257 feet to the top of the coal, which is seven feet thick. The company suggests that this is No. 5 seam of the general section; an 18-inch seam and a three-foot seam are also the one first named. The tipples are built of steel; a three-track shaker screen is erected; a battery of four boilers have been installed, with a large engine, motion Ottumwa engine and a seven-foot drum, also an air compressor. The power plant and powder house are fire proof.

The Equitable Coal Company, the Forresters Coal Co., and the Crescent Coal Co., have opened out new mines at Duquoin, Perry county.

In Williamson county the Big Muddy Coal & Iron Co. has opened a new shaft, known as No. 8; the depth of the shaft is 170 feet.

The Western Coal & Mining Co., a new corporation, has opened a new shaft which is 119 feet to the coal; both of these shafts have electric hauling.

In Saline county, the Egyptian Coal & Coke Co. has opened two new mines known as Nos. 1 and 2.

There have been quite a number of new local mines opened during the year and a corresponding number of the same class of mines abandoned.

#### FATAL ACCIDENTS.

The number of fatal accidents for the past year exceeds that of any year since the formation of this district. This increase is largely due to the terrific explosion of powder May 11, 1904, in the mine of the Big Muddy Coal & Iron Co., at Herrin, Williamson county. The description of the causes of fatal accidents follow in detail:

August 8, 1903, Eric Anderson, driver, aged 26 years, single, was instantly killed in the No. 3 mine of the Southern Illinois Coal Mining & Washing Co. at Marion, Williamson county. The deceased was bringing out a trip of coal in some manner he slipped off of the car and was dragged some distance when the car ran over him.

September 23, 1903, John Murphy, trapper, aged 14 years, employed in mine No. 6 of the Big Muddy Coal & Iron Co., Murphysboro, Jackson county. The boy attempted to jump on a moving pit car, when he fell under the wheels; his leg and arm were crushed, the severe shock causing his death.

Sept. 25, 1903, William Losley, mine examiner, aged 27 years, married, was killed instantly in the mine of the Muddy Valley Mining & Manufacturing Co., Hallidayboro, Jackson county. Deceased had gone into a room to show a miner how he should take down top coal; he began to pick at the coal, at the same time endeavoring to avoid its falling on him, but he was caught and crushed. He leaves a widow and three children.

Oct. 12, 1903, John Auglin, miner, aged 21 years, single, employed in the Harrisburg Mining and Coal Co.'s mine. Harrisburg, Saline county, was killed by his own shot. He lit the squib too close, and did not get to a place of safety.

Oct. 17, 1903, Thomas E. Thompson, miner, aged 60 years, married, employed in the mine of the Williamson County Coal Co., Johnston City, Williamson county. He was in the act of setting a prop to secure the roof, when a piece of slate weighing about 700 pounds fell on him; no one was in the room at the time of the accident. He leaves a widow and one child.

Dec. 19, 1903, Ames Keen, miner, aged 58 years, married, was seriously injured in the mine of the Soper Coal Co., Cutler, Perry county. Early in the forenoon he fired some shots in his room; evidently he thought that the squib of one shot had failed to ignite, as he returned to the room, and, when within a few feet of the entrance, the shot exploded, the falling and flying coal striking him. He died five hours afterwards. He leaves a widow and three children.

Dec. 29, 1903, John Benedict, spragger, aged 18 years, single, was instantly killed in the mine of the Chicago-Herrin Coal Co., Herrin, Williamson county. Deceased had spragged some cars near the shaft, and was letting down some more cars; while doing this his head was caught and crushed between the cars in motion, and those standing still.

Jan. 2, 1904, Salvador Simon, laborer, employed by the Leiter Coal Co., at Engler, Franklin county, was instantly killed by falling to the bottom of the sump, which was about 32 feet from the main shaft. Simon was employed to give signals to the engineer; some shots were fired in the main shafts and in attempting to get out of danger he fell into the sump.

Jan. 11, 1904, Richard Carnahan, miner, aged 25 years, single, was killed while firing a shot in the mine of the Moffat Coal Co., Sparta, Randolph county.

Jan. 14, 1904, Charles Sells, hoisting engineer, was instantly killed by the explosion of the boiler, at the mine of the West Frankfort-Big Muddy Coal Co., West Frankfort, Franklin county. The pumps had failed to work, deceased and others were trying to repair them in order to feed the boilers; no one was able to tell how much water was in the boiler when it exploded.

Jan. 25, 1904, Pete Zanatti, miner, aged 31 years, widower, was instantly killed at No. 7 mine of the Big Muddy Coal and Iron Co., Herrin, Williamson county. Deceased had come to the bottom for some unknown purpose; when the motor with a trip of loaded cars came out, he was warned to get out of the way, he replied, "all right," and stepped onto an empty track, but for some unexplainable reason, when the cars came near him he jumped onto the other track and tried to squeeze himself between the motor and the side of the entry when he was crushed to death. He leaves two children.

Jan. 28, 1904, Samuel Willis, sinker, aged 31 years, widower, was instantly killed by falling out of a sinking bucket to the bottom of the shaft, a distance of about 40 feet, at the mine of the Harrisburg-Big Muddy Coal Co., Harrisburg, Saline county. Willis had been timbering at the bottom of the shaft, and through with his work he got into the bucket to take a step ladder to the surface. He told one of the men working with him to give one bell instead of two bells, which is the proper signal to hoist to the top. The engineer, mistaking the signal, understood that no one was coming up, started the bucket at a good rate of speed, when at the distance stated deceased fell out of the bucket.

Feb. 1, 1904, Anton Mechelle, miner, aged 36 years, married, was killed by falling from the ascending cage, in the mine of the Chicago and Big Muddy



Coal and Coke Co., Marion, Williamson county. Deceased fell from the cage when it was about 30 feet from the bottom of the shaft. He was crushed between the cage and buntin. He leaves a widow and three children in Italy.

Feb. 11, 1904, Edward Gasaway, miner, aged 36 years, married, employed in the mine of the Saline County Coal Co., Harrisburg, Saline county, was severely injured by flying coal from a shot blowing through from an adjoining room. He died a few hours after the accident, leaving a widow and three children.

March 19, 1904, Walter Ferrell, trapper, aged 16 years, was killed at the No. 6 mine of the Big Muddy Coal and Iron Co., Murphysboro, Jackson county. The boy attempted to run past a moving loaded trip and was caught and crushed between the cars and rib.

March 28, 1904, Aaron Burlisan, miner, aged 70 years, married, employed in the Jupiter mine No. 4 of the Manufacturers Fuel Co., Pinckneyville, Perry county, was found dead in his room in the mine. The mine stopped work about 1:30 p. m. the mine manager noticed that Burlisan's peg was still in the board; search was immediately made, and he was found in his room lying face downward, where he had been drilling. He apparently died without a struggle. The coroner's verdict was heart failure. He leaves a widow and eight children, three of whom are dependent.

April 13, 1904, Thomas Robertson, miner, aged 48 years, married, working in the old Kentucky Coal company's mine, Tamaroa, Perry county, was instantly killed by falling slate at his working place. He leaves a widow and three children.

April 25, 1904, Adolph Crizzati, miner aged 24 years, married, was instantly killed in the north side mine of the Chicago-Carterville Coal company, Herrin, Williamson county. Deceased had fired a shot which he evidently thought had exploded, as he had returned to investigate; when within about 18 feet of his working place the shot went off, the flying coal striking him about the head and body. He leaves a widow.

April 27, 1904, Louis Graves, miner, aged 34 years, employed in No. 3 mine of the Southern Illinois Coal & Washing company, Marion, Williamson county, was instantly killed by falling slate while at work in his room. He leaves a widow and one child.

May 6, 1904, Carsidine Nardina, miner, aged 30 years, was fatally injured in the mine of the Missouri-Illinois Coal company, Willisville, Perry county. While at work in his room a fall of slate caught him, injuring him so severely that he died six hours afterwards. He leaves a widow and two children.

May 11, 1904. This date records the terrible explosion of powder in the mine of the Big Muddy Coal & Iron company, Herrin, Williamson county. Four men were instantly killed as follows: Richard Raines, driver, aged 36 years, married, leaves a widow and two children; John Miller, driver, aged 22 years, single; Fred Selberg, pumpman, aged 24 years, married, leaves a widow and one child; Evan Williams, driver, aged 21 years, single. Eighteen other employees were more or less severely injured by this explosion, six of whom died as follows: May 16, Sherid Busch, miner, aged 29 years, married, leaves a widow and four children; John Swafford, miner, aged 40 years, married, leaves a widow and four children; Carlo Lualdi, miner, aged 29 years, single; May 25, Thomas Green, driver, aged 36 years, married, leaves a widow and three children; Louis Branco, miner, aged 29 years, married, leaves a widow and two children, and May 26, William Stagner, miner, aged 24 years, married, leaves a widow. In addition to the ten men here enumerated as meeting death by this explosion, 12 others were so severely injured that they were not able to return to work July 1, 1904.

In explanation of the causes leading up to this explosion, it would seem that there was a lack of proper precaution in sending powder into the mine. It was the custom at this mine, up to the time of the explosion, for a driver to take the powder that was to be used by the men in the mine, into the mine in the mine cars and deliver it to the miners, a limited time being given the driver to reach the inside workings before turning on the electric current. On this fatal morning a driver started with six kegs of powder in his car; with him were one or two other drivers. It is supposed that the

into the wire, which was down; the cause of the explosion, however, can only be conjectured, as the drivers who were in the car were instantly killed. It is understood that the company at once took up the matter of damages with the widows and other representatives of the men who were killed or injured and have made liberal settlements with all with one exception. The table of fatal and non-fatal accidents follows, also the county tables, giving in detail the coal statistics of the district.

Respectfully submitted,

EVAN D. JOHN,

*State Inspector of Mines, Seventh District, Carbondale.*

*Fatal Casualties—Seventh District—July 1, 1904.*

Date.	NAME.	Age.	Occupation.	Married.	Widows.	Children.	Single.	Persons dependent.	Cause of accident.
1903									
Aug. 8	Erick Anderson	26	Driver				1		Pit cars
Sept. 23	John Murphy	14	Trapper				1		Pit cars
25	William Losley	27	Mine Ex.	1	1	2		3	Falling coal
Oct. 12	John Anglin	21	Miner				1		Explosion of shot
17	Thos. E. Thompson	60	Miner	1	1	1		2	Falling slate
Dec. 19	Ames Keen	56	Miner	1	1	3		4	Flying coal
29	John Benedict	18	Spragger				1		Pit cars
1904									
Jan. 2	Salvador Simon		Laborer	1					Falling into sump
11	Richard Connahan	25	Miner				1		Explosion of shot
14	Charles Sells		Engineer	1				1	Explosion of boiler
25	Peter Zannati	31	Miner	1		2		2	Pit cars
28	Samuel Willis	31	Sinker	1					Falling from bucket
Feb. 1	Anton Mechello	36	Miner	1	1	3		4	Falling from cage
11	Edward Gasaway	26	Miner	1	1	3		4	Flying coal
Mar. 19	Walter Ferrell	16	Trapper				1		Pit cars
28	Aaron Burlison	70	Miner	1	1	8		4	Heart failure
Apr. 13	Thomas Robertson	48	Miner	1	1	3		4	Falling slate
25	Adolph Criszott	24	Miner	1	1			1	Flying coal
27	Louis Groves	34	Miner	1	1	1		2	Falling slate
May 6	Carsodine Nardina	30	Miner	1	1	2		3	Falling slate
11	Richard Raines	34	Driver	6	1	3		4	Explosion of powder
11	John Miller	22	Driver				1		Explosion of powder
11	Fred Seiberg	24	Pumpman	1	1	1		2	Explosion of powder
11	Evan Williams	21	Driver				1		Explosion of powder
11	Sherid Busch	29	Miner	1	1	4		5	Explosion of powder
11	John Swofford	40	Miner	1	1	4		5	Explosion of powder
11	Thomas Green	36	Driver	1	1	3		4	Explosion of powder
11	Carlo Lualdi	29	Miner				1		Explosion of powder
11	William Stagner	24	Miner	1	1			1	Explosion of powder
11	Louis Branco	29	Miner	1	1	2		3	Explosion of powder
				21	17	45	9	58	

*Recapitulation of Fatal Casualties—Seventh District—1904.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Cutler	1	Drivers	5	Explosion of boiler	1	Big Muddy Coal & Iron Co.	13
Hallidayboro	1	Engineer	1	Explos'n of powd'r	10	Chi. & Big M. C. Co.	1
Harrisburg	3	Laborer	1	Explos'n of shot	2	Chicago-Carterville	1
Herrin	12	Mine exam.	1	Falling coal	1	Chicago & Herrin	1
Johnson City	1	Miners	17	Falling from bucket	1	Leiter Coal Co.	1
Lake Creek	1	Pumpman	1	Falling from cage	1	Harrisburg & Big M.	1
Marissa	3	Sinker	1	Falling into sump	1	Harrisburg M. & C. Co.	1
Murphysboro	2	Spragger	1	Falling slate	4	Manufrs. Fuel Co.	1
Pinckneyville	1	Trapper	2	Flying coal	3	Missouri & Illinois	1
Sparta	1			Heart failure	1	Moffat Coal Co.	1
Tamaroa	1			Pit cars	5	Muddy Valley C. Co.	1
W. Frankfort	1					Old Kentucky C. Co.	1
Willisville	1					Saline Co. Coal Co.	1
Ziegler	1					Soper Coal Co.	1
						So. Ill Coal Co.	2
						W. Frankfort Big M.	1
						Williamson Co. C. Co.	1
Totals	30		30		30		30

Run-run Casualties—Seventh District—July 1, 1900.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1900 July	3 Chas. Wallace.	17	Carpenter.	Duquoin.	Jupiter No. 2.	1	1	1	1	Foot cut by adz.	*
Aug.	5 Wm. Hill.	26	Driver.	Duquoin.	Jupiter No. 1.	1	1	1	1	Leg bruised; mine car.	*
	5 C. W. White.	33	Carpenter.	West Frankfort.	Jupiter No. 5.	1	1	1	1	Back injured; smoking stack.	*
	6 Geo. Faller.	33	Driver.	Duquoin.	Jupiter No. 1.	1	1	1	1	Ankle sprained; mining car.	*
	7 John Swafford.	36	Miner.	Herrin.	Big Muddy.	1	1	1	1	Back and hip bruised; falling coal.	44
	13 Thos. Greenwood.	32	Miner.	Duquoin.	Jupiter No. 1.	1	1	1	1	Arm cut; falling slate.	*
Sept.	26 John Garivola.	21	Driver.	Herrin.	Big Muddy.	1	1	1	1	Back and hip bruised; mining car.	30
Oct.	29 John Bowden.	40	Miner.	Pickneyville.	Jupiter No. 4.	1	1	1	1	Face and back bruised; falling clod.	82
Nov.	7 Ed. Seifert.	24	Driver.	Pickneyville.	Jupiter No. 4.	1	1	1	1	Ankle fractured; mining car.	*
	4 Kollo Blankenship.	23	Driver.	Cartersville.	Big Muddy.	1	1	1	1	Arm bruised; mining car.	30
	20 John Hager.	27	Driver.	Duquoin.	Jupiter No. 3.	1	1	1	1	Hand injured; mining car.	*
	21 Antonio Russo.	55	Miner.	Murphysboro.	Harrison.	1	1	1	1	Back injured; falling slate.	124
	25 Angelo Carnaghi.	25	Miner.	Herrin.	Big Muddy.	1	1	1	1	Rib and hip broken; mining car.	39
Dec.	2 John Swafford.	36	Miner.	Herrin.	Big Muddy.	1	1	1	1	Leg bruised; mining car.	36
	6 Lee Gladson.	26	Driver.	Duquoin.	Jupiter No. 1.	1	1	1	1	Head and face cut; mining car.	*
	7 Thomas White.	26	Driver.	Duquoin.	Jupiter No. 1.	1	1	1	1	Leg caught; mining car.	35
	9 Cuthbert Atkinson.	20	Driver.	Murphysboro.	Harrison.	1	1	1	1	Hand injured; mining car.	110
	13 Pat Gillolly.	43	Miner.	Herrin.	Big Muddy.	1	1	1	1	Leg bruised; mining car.	*
	16 Edward G. Lee.	27	Carpenter.	St. Johns.	Jupiter.	1	1	1	1	Head hurt; iron falling from scaffold.	110
	17 Rosco Fleming.	25	Top laborer.	Herrin.	Big Muddy.	1	1	1	1	Ankle sprained; mining car.	30
	18 John Politer.	35	Driver.	Herrin.	Big Muddy.	1	1	1	1	Back sprained; switch pole.	*
	22 Bert Francis.	26	Driver.	Duquoin.	Jupiter No. 1.	1	1	1	1	Head arm and leg injured; mining car.	*
	22 Wm. Knapp.	26	Water hauler.	Duquoin.	Jupiter No. 3.	1	1	1	1	Arm injured; mining car.	*
	23 Lee Chambers.	45	Top laborer.	Herrin.	Big Muddy.	1	1	1	1	Head bruised; coal car.	*
	24 Emery Dyer.	17	Trapper.	Pickneyville.	Jupiter No. 4.	1	1	1	1	Leg bruised; mining car.	*
	26 Otice Dorris.	25	Dumper.	Herrin.	Big Muddy.	1	1	1	1	Hand bruised; caught by sprag and rib.	*
1900 Jan.	5 E. G. Holloway.	30	Carpenter.	Duquoin.	Jupiter No. 2.	1	1	1	1	Head cut; falling timber.	*
	5 Pete Snyder.	40	Miner.	Zeigler.	Leiter.	1	1	1	1	Finger cut off; overturning sinker's bucket.	*
	7 John F. Williams.	42	Mach. runner.	Zeigler.	Leiter.	1	1	1	1	Back wrench; mining machine.	*
	8 Ben O'Connor.	29	Miner.	Duquoin.	Jupiter No. 3.	1	1	1	1	Hips bruised; mining car.	*
	9 James Barton.	15	Laborer.	Duquoin.	Jupiter No. 3.	1	1	1	1	Sprague injured; falling slate.	149
	15 Patrick Summers.	57	Miner.	Murphysboro.	No. 6.	1	1	1	1	Back injured; falling slate.	*
	18 Logan Bidwell.	40	Trimmer.	Duquoin.	Jupiter No. 1.	1	1	1	1	Finger bruised; falling coal.	*
	20 Thos. Kirkman.	16	Trapper.	Duquoin.	Jupiter No. 3.	1	1	1	1	Leg kicked by mule.	*
Feb.	2 David Jones.	22	Driver.	Duquoin.	Jupiter No. 3.	1	1	1	1	Foot and ankle sprained; mining car.	*

## Non-Fatal Casualties—Seventh District—July 1, 1904—Concluded.

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Name of mine.	Married.	Children.	Single.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1904 Feb.	12 Otto Stephens.		Laborer.	Duquoin.	Jupiter No. 3.		1		1	Hand bruised; falling slate.	*
	20 Logan B. dwell.	40	Trimmer.	Duquoin.	Jupiter No. 1.	1				Hand and finger bruised; spragging car.	*
	21 S. S. Watson.	45	Miner.	Zeigler.	Leiter.		1		1	Body burned; powder explosion.	*
	24 Batisto Sarto.	42	Miner.	Duquoin.	Jupiter No. 3.		1		1	Leg bruised; falling slate.	*
	25 Wm. Williams.	24	Miner.	Duquoin.	Jupiter No. 1.		1		1	Leg broken; falling slate.	141
	1 Roy Walker.	33	Miner.	Zeigler.	Leiter.		1		1	Body broken; falling slate.	*
	3 Frank Welker.	19	Driver.	Herrin.	Big Muddy.	1			1	Body squeezed; sinker's bucket and rib.	31
	4 H. B. Eaton, Jr.	22	Driver.	Sunfield.	Eaton Fuel Co.		1		1	Arm injured.	*
	5 Wm. Degnot.	28	Miner.	Herrin.	Big Muddy.	1			1	Leg broken; flying coal.	*
	8 Wm. Rosa.	35	Miner.	Duquoin.	Jupiter No. 3.	1			1	Back and head bruised; falling slate.	*
March	10 John Rosa.		Miner.	Duquoin.	Jupiter No. 3.		1		1	Arm broken; burning car.	*
	17 Jesse Jones.	17	Driver.	Murphysboro.	Shaft 6.		1		1	Head and face bruised; premature shot.	59
	19 E. C. Child.	40	Miner.	Zeigler.	Leiter.	1			1	Body burned; premature shot.	41
	19 Frank McNeill.	39	Miner.	Murphysboro.	No. 6.		1		1	Leg sprained; falling coal.	*
	21 Jo Castagno.	29	Miner.	Herrin.	Big Muddy.	1			1	Leg broken; falling slate.	*
	23 Ed. Miller.	20	Miner.	Duquoin.	Jupiter No. 2.	1			1	Body bruised; falling slate.	*
	24 John Weir.	45	Miner.	Herrin.	Big Muddy.	1			1	Shoulder bruised; falling slate.	*
	3 Ike Nichols.	35	Tonnan.	Zeigler.	Leiter.		1		1	Body injured in chute.	*
	5 Bill Butler.	34	Miner.	Zeigler.	Leiter.		1		2	Hips injured; flying coal.	*
	7 Ralph Cox.	22	Driver.	Herrin.	Big Muddy.	1			1	Fingers injured; dynamite cap.	*
April	11 Thos. Kirkman.	16	Trapper.	Duquoin.	Jupiter No. 3.	1			1	Foot injured by a nail.	*
	13 Horace Hench.		Miner.	Zeigler.	Leiter.		1		1	Leg bruised; mining car.	*
	21 Rosa West.	28	Driver.	Pickneyville.	Jupiter No. 4.	1			1	Arm broken; mining car.	60
	22 John D. Hurly.	20	Driver.	Pickneyville.	Jupiter No. 4.	1			1	Head cut; falling slate.	*
	30 W. P. Morrison.	39	Timberman.	Herrin.	Big Muddy.	1			2	Head injured; falling slate.	90
	3 Ben Lester.	23	Miner.	Zeigler.	Leiter.		1		1	Leg bruised; falling slate.	*
	3 Marion Busch.	20	Miner.	Herrin.	Big Muddy.	1			1	Body burned; powder explosion.	*
	11 Angelo Sparoni.	32	Miner.	Herrin.	Big Muddy.	1			4	Body burned; powder explosion.	*
	11 Louis Chiodinia.	40	Miner.	Herrin.	Big Muddy.	1			3	Body burned; powder explosion.	*
	11 Will Carter.	33	Driver.	Herrin.	Big Muddy.	1			3	Body burned; powder explosion.	*
May	11 Frank Passonia.	31	Miner.	Herrin.	Big Muddy.	1			1	Body burned; powder explosion.	*
	11 C. H. Pascher.	29	Timberman.	Herrin.	Big Muddy.	1			1	Body burned; powder explosion.	*
	11 C. S. Sagner.	18	Miner.	Herrin.	Big Muddy.	1			1	Body burned; powder explosion.	*
	11 Geo. Serles.	19	Miner.	Herrin.	Big Muddy.	1			1	Body burned; powder explosion.	*

June	11 Thomas Dare	87 Miner	Herrin	Big Muddy	1	2	3 Body burned; powder explosion	40	
	11 Charles Smith	14 Trapper	Herrin	Big Muddy	1	1	Body burned; powder explosion	30	
	11 Wm. Dare	23 Miner	Herrin	Big Muddy	1	1	Body burned; powder explosion	30	
	11 Geo. Hewlet	36 Miner	Herrin	Big Muddy	1	3	Body burned; powder explosion	30	
	13 Wm. Truex	30 Miner	Zeigler	Leiter	1	1	Head injured; falling coal	30	
	13 O. A. Barnwell	35 Miner	Sunfield	Eaton Fuel Co	1	2	Body burned; premature blast	30	
	14 Joseph Hagston	44 Mine manager	St. Johns	Jupiter, No. 2	1	4	Arm and rib broken; flying coal	30	
	20 J. H. Lewis	48 Miner	Duquoin	Lake Superior	1	2	Finger broke by brushing on empty car	30	
	21 J. F. Simmons	25 Driver	Duquoin	Jupiter, No. 4	1	1	Leg and hand bruised; caught in door	30	
	2 C. H. Holland	24 Miner	Zeigler	Leiter	1	1	Body burned; gas explosion	30	
	3 Chas. Towers	31 Miner	Zeigler	Leiter	1	1	Ankle sprained; mining machine	30	
	8 Otice Maynard	22 Driver	Herrin	Big Muddy	1	1	Hand bruised; mining car	30	
	11 John Wagoner	23 Driver	Herrin	Big Muddy	1	5	Head cut; fell into hopper	30	
	13 Joseph Marr	35 Miner	Herrin	Big Muddy	1	2	Body injured; falling slate	30	
	30 John Pico	38 Miner	Herrin	Big Muddy	1	2	Nose broken; falling slate	30	
	Totals—84				47	37	106		
<hr/>									
Total number injured				84	Total days lost by men reported				1,803
Number time not reported				46	Average days lost				59
Number not recovered June 30, 1901				14					59

*Recapitulation of Non-Fatal Casualties—Seventh District—1904.*

Residence.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Cartersville ....	1	Carpenters....	4	Adz.....	1	Big Muddy C. & I. Co.	37
Duquoin.....	25	Drivers.....	22	Bucket (sinkers) ..	2	Eaton Fuel Co.....	2
Herrin.....	31	Dumper.....	1	Door in mine.....	1	La e Superior C. Co ..	1
Murphysboro ..	5	Laborers.....	2	Dynamite cap.....	1	Leiter Coal Co.....	12
Pinckneyville ..	5	Machine run..	1	Falling coal.....	5	Manufacturers Fuel Co	32
St. John.....	2	Miners.....	41	Falling clod.....	1		
Sunfield.....	2	Mine mgr.....	1	Falling in chute....	1		
W. Frankfort..	1	Timbermen ..	2	Falling into hopper ..	1		
Zeigler.....	12	Topmen.....	3	Falling slate.....	14		
		Trappers.....	4	Falling from scaf-			
		Trimmers.....	2	fold.....	1		
		Waterhauler..	1	Falling timber.....	1		
				Flying coal.....	4		
				Gas explosion.....	1		
				Mining machine ...	2		
				Mule kick.....	1		
				Nail.....	1		
				Pit cars.....	26		
				Powder explosion..	12		
				Premature blast....	3		
				Railroad car.....	1		
				Smoke stack (lifting	1		
				Sprag.....	1		
				Switch pole.....	1		
				Not stated.....	1		
Total.....	84		84		84		84

*Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—1904.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankles injured.....	4	3	1	4	82	21	4.76
Arms broken.....	3	1	2	...	149	50	3.57
Arms injured.....	4	2	2	7	30	8	4.76
Backs injured.....	12	8	4	20	387	32	14.33
Bodies injured.....	18	10	8	30	40	2	21.41
Eye injured.....	1	1	...	3	...	...	1.19
Face injured.....	1	...	1	...	...	...	1.19
Finger cut off.....	1	...	1	...	...	...	1.19
Fingers injured.....	3	2	1	4	...	...	3.57
Feet injured.....	4	1	3	1	31	31	4.76
Hands injured.....	6	2	4	2	62	62	7.14
Heads and faces injured ..	10	6	4	15	...	...	11.90
Hips injured.....	2	...	2	...	...	...	2.38
Legs broken.....	3	2	1	2	141	47	3.57
Legs injured.....	8	5	3	10	342	43	9.52
Nose broken.....	1	1	...	3	...	...	1.19
Ribs broken.....	1	1	...	1	39	39	1.19
Shoulder injured.....	1	1	...	1	...	...	1.19
Spine injured.....	1	1	...	3	...	...	1.19
Totals, averages and percentages.....	84	47	37	106	1,303	59	100.00





*Franklin County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINE.							
1	Zeigler Coal Co., No. 1.....	Zeigler.....	4,240	4,240	.....	.....	.....
	Totals and average.....	.....	4,240	4,240	.....	.....	.....

Mines in 1903—0.  
 New mines—1.  
 Mines in 1904—1.

*Gallatin County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINES				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Gallatin Coal & Coke Co.....	Equality .....	60,178	.....	32,202	.....	15,831
2	East Side Coal Co.....	Equality .....	1,063	.....	600	.....	.....
	Total .....	.....	61,241	.....	32,802	.....	15,831

<b>LOCAL MINES.</b>							
1	W. H. McLain .....	Equality .....	3,470	.....	3,120	.....	.....
2	M. Corney .....	Shawneetown. ....	2,000	.....	850	1,150	.....
3	Strong & Wood .....	Saline Mines .....	1,000	1,000	.....	.....	.....
4	Leon Vogt .....	Shawneetown. ....	700	700	.....	.....	.....
	Totals .....	.....	7,170	1,700	3,970	1,150	.....
	Totals 6 mines .....	.....	68,411	1,700	36,772	1,150	15,831

Mines in 1903—9.  
 Abandoned mines—3.  
 Mines in 1904—6.

*Franklin County—Seventh District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Total consumed or wasted at the mine.			
.....		\$4,240	.....	.....	.....	2,845	50	20	1,325	.....	4,240	1
.....		\$4,240	.....	.....	.....	2,845	50	20	1,325	.....	4,240	

NOTE—Price paid for hand mining \$0.55 per ton.

*Gallatin County—Seventh District—Concluded.*

No.	Slack or waste.	Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
5	.....	\$59,385	65	29	94	41,687	3,635	9,707	5,149	202	60,178	1
3	.....	965	5	6	11	800	200	.....	63	40	1,063	2
8	.....	\$60,350	70	35	105	42,487	3,835	9,707	5,212	203	61,241	

NOTE—Price paid for hand mining shipping mines from July 1, 1903, to April 1, 1904, \$0.51; April 1, 1904, to July 1, 1904, \$0.48. Average price per year \$0.5025 per ton.

0	.....	\$4,890	4	.....	4	.....	.....	3,470	.....	.....	3,470	1
.....	.....	3,000	3	.....	3	.....	.....	2,000	.....	.....	2,000	2
.....	.....	1,500	2	.....	2	.....	.....	1,000	.....	.....	1,000	3
.....	.....	1,050	2	.....	1	.....	.....	700	.....	.....	700	4
0	.....	\$10,440	11	.....	11	.....	.....	7,170	.....	.....	68,411	
3	.....	\$70,790	81	35	116	42,487	3,835	16,877	5,212	203	68,411	

TE—Price paid for hand mining local mines \$0.48 per ton.

*Hamilton County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINE.							
1	J. C. Harper .....	Flint .....	2,000	2,000	.....	.....	.....
	Total—1 mine.....	.....	2,000	2,000	.....	.....	.....

NOTE.—Price paid for hand mining, \$0.48 per ton.

*Hamilton County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	.....	\$3,000	3	.....	3	.....	.....	2,000	.....	.....	2,000	1
.....	.....	\$3,000	3	.....	3	.....	.....	2,000	.....	.....	2,000	

Mines in 1903, 2.  
Credited to Jefferson Co., 1.  
Mines in 1904, 1.

*Jackson County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MIN-				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co., No. 6	Murphysboro.	237,771	36,289	94,523	17,151	.....
2	Muddy Valley Mine & Mfg. Co.	Hallidayboro.	222,518	10,846	147,400	72	8
3	Big Muddy Coal & Iron Co., Har.	Murphysboro.	182,101	3,339	90,831	.....	.....
4	Gartside Coal Co., No. 4.....	Murphysboro.	69,690	.....	42,392	.....	12
5	Chicago & Carbondale Coal Co.	Elk Ridge	50,000	20,000	14,000	3,000	5
6	Gartside Coal Co., No. 3.....	Murphysboro.	42,322	.....	28,488	.....	5
7	Willis Coal Mining Co., No. 2.....	Bryden	22,403	22,403	.....	.....	.....
8	Gus Blair Big Muddy C. Co.....	Murphysboro.	12,960	12,000	600	.....	.....
9	Schmidgall Coal Co., No. 1.....	Murphysboro.	5,953	.....	2,976	.....	1
Totals .....			845,716	104,877	421,210	20,223	33
LOCAL MINES.							
1	M. M. Thomson & Co.....	Carbondale.....	2,000	.....	1,000	.....	.....
2	Jake Schimpf.....	Vergennes	1,600	1,600	.....	.....	.....
3	Dan Dawson.....	Campbell Hill	1,325	1,325	.....	.....	.....
4	Wm. Johnson.....	Vergennes	1,200	1,200	.....	.....	.....
5	Wm. Campbell.....	Vergennes	1,200	1,200	.....	.....	.....
6	Wm. Meyers.....	Carbondale.....	1,000	300	300	.....	.....
7	F. A. Mason.....	Carbondale.....	800	.....	500	.....	.....
8	Rames & Herman.....	Vergennes	800	800	.....	.....	.....
9	Carbondale & Carterville C. Co..	Carbondale.....	7,000	7,000	.....	.....	.....
Totals .....			16,925	13,425	1,800	.....	1
Totals—18 mines.....			862,641	118,302	423,010	20,223	34

Mines in 1903, 23.

New mines, 1.

Abandoned mines, 6.

Mines in 1904, 18.

*Jackson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Per of screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
8,808	.....	\$241,522	167	134	301	223,660	.....	.....	14,111	236	17,805	1
38,150	17,152	237,865	160	115	275	150,251	69,912	2,353	.....	232	222,516	2
87,931	.....	182,826	184	89	273	169,197	.....	.....	12,904	188	4,334	3
7,485	7,350	97,248	60	44	104	62,340	.....	50	7,300	192	17,243	4
8,000	.....	53,500	100	25	125	48,000	.....	.....	2,000	100	50,000	5
561	7,300	60,922	30	22	52	34,079	.....	943	7,300	181	7,387	6
.....	.....	28,004	30	19	49	21,833	.....	192	378	278	22,403	7
360	.....	15,744	15	6	21	12,000	.....	600	360	240	260	8
1,489	.....	7,292	8	5	13	46	.....	5,593	314	160	5,953	9
23,784	31,802	\$924,923	754	459	1,213	721,406	69,912	9,731	44,667	213	347,901	

NOTE.—Price paid for hand mining, shipping mines: From July 1, 1903 to April 1, 1904, \$0.51, from April 1, 1904, to July 1, 1904, \$0.48 at six mines. Three mines paid, \$0.48, \$0.52 and \$0.68. Making average for year, \$0.4793 per ton.

Price paid for machine mining, shipping mines at three mines from July 1, 1903, to April 1, 1904, \$0.44, from April 1, 1904, to July 1, 1904, \$0.41. One mine for same periods, \$0.57 and \$0.54, one mine paid, \$0.46. Average price for year machine mining, \$0.4257 per ton.

500		2,750	3		3			2,000			2,000	1
		2,400	3		3			1,600			1,600	2
		1,988	2		2			1,325			1,325	3
		1,800	2	1	3			1,198	2		1,200	4
		1,800	2		2			1,200			1,200	5
200		1,400	3		3			1,000			1,000	6
		1,200	2	1	2			800			800	7
		1,200	2		2			800			800	8
		7,000	11	1	12				7,000		7,000	9
700		21,538	30	3	33			9,923	7,002		16,925	
24,484	31,802	946,461	784	462	1,246	721,406	69,912	19,654	51,669		364,826	

Price paid for hand mining local mines, \$0.50 per ton.

*Jefferson County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Jefferson Co. Coal Co .....	Mt. Vernon...	28,587	24,709	1,939	646	.....
2	J. R. Yates & Co.....	Dahlgren .....	1,280	1,280	.....	.....	.....
3	Sopha A. Shelton.....	Opdyke.....	100	.....	100	.....	.....
	Total—3 mines.....	.....	29,967	25,989	2,039	646	.....

Mining in 1903, 2.  
Credited from Hamilton Co., 1.  
Mines in 1904, 3.

*Johnson County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
LOCAL MINES.							
1	Dills & Wallace .....	New Burnside	2,200	1,000	1,000	.....	50
2	J. W. Tyler.....	New Burnside	550	.....	150	.....	.....
3	Wm. F. Kilgore.....	New Burnside	300	300	.....	.....	.....
Total—3 mines.....			3,050	1,300	1,150	.....	50

Mines in 1903, 5.  
Abandoned mines, 2.  
Mines in 1904, 3.

*Jefferson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	1,293	\$31,658	28	15	43	.....	23,372	5,215	.....	242	28,587	1
.....	.....	1,920	10	.....	10	.....	.....	1,280	.....	80	1,280	2
.....	.....	150	.....	2	2	.....	.....	100	.....	120	100	3
.....	1,293	\$33,728	38	17	55	.....	23,372	6,595	.....	182	29,967	

NOTE.—Price paid or hand mining, \$0.53 per ton.

*Johnson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
.....	200	\$2,250	3	7	10	.....	.....	2,100	100	100	2,200	1
275	75	618	3	.....	3	.....	.....	550	.....	.....	550	2
.....	.....	450	1	.....	1	.....	.....	300	.....	.....	300	3
275	275	\$3,318	7	7	14	.....	.....	2,950	100	.....	3,050	

NOTE.—Price paid for hand mining, \$0.55 per ton.



*Randolph County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF			
			Total.	Mine Run.	Lump.	Egg.
SHIPPING MINES.						
1	Western Anth. C. & C. Co., Eden	Sparta	148,000		136,000	
2	Moffat Coal Co., Moffat	Sparta	96,309	92,005	3,684	
3	Willis Coal Mining Co., No. 6	Percy	57,824	40,874	13,080	
4	Crystal Coal Co., Tilden	Tilden	52,172	26,968	20,947	
5	Tilden Coal Co., Tilden mine	Tilden	46,143	13,086	27,592	
6	Boyle Coal & C. Co., No. 1	Sparta	45,000	24,500	17,000	500
7	Illinois Fuel Co., No. 3	Sparta	42,064	35,024	5,632	
8	Illinois Fuel Co., No. 4	Sparta	35,360	35,360		
9	Willis Coal Mining Co., No. 5	Percy	35,166	29,016	4,170	
10	Coulterville Mining Co., No. 1	Coulterville	29,300	2,682	22,750	
11	A. K. Powell, Consol.	Coulterville	24,733		17,813	
Totals, 11 mines			612,071	299,485	268,668	500
LOCAL MINES.						
1	Boyle Coal Co.	Sparta	7,559	1,889	5,670	
2	John & Georg Myer	Percy	650	50	550	
Total, 2 mine			8,209	1,939	6,220	
Totals, 13 mines			620,280	301,424	274,888	500

Total Mines in 1903—14.

New mines—2.

Abandoned mines—3.

Mines in 1904—13.

*Randolph County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
12,000		\$132,200	75	50	125	144,000			4,000	145	148,000	1
620		87,134	75	24	99	94,995		804	510		96,309	2
3,870		55,802	90	29	119	54,624		1,200	2,000	189	57,824	3
4,237		47,343	72	20	92	52,172					52,172	4
4,234	1,036	42,921	57	20	77	44,016		591	1,536	145	46,143	5
1,200	800	50,445	65	20	85	35,000		7,500	2,500	210	45,000	6
1,408		42,416	35	13	48	37,356	3,748		960	286	42,064	7
		35,360	20	17	37	33,860			1,570	259		8
1,980		33,040	46	22	68	31,866		1,500	1,800	240	35,166	9
3,218	650	29,010	28	22	50	26,126		2,524	650	236	29,300	10
6,920		19,197	30	6	36	23,093			1,640	215	24,733	11
30,687	2,486	\$574,868	593	243	836	577,108	3,748	14,119	17,096	209	576,711	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903 to April 1, 1904 \$0.55; from April 1, 1904 to July 1, 1904 \$0.52. Average price for year \$0.5444 per ton. Price paid for machine mining, shipping mine, from July 1, 1903 to April 1, 1904, \$0.48; from April 1, 1904 to July 1, 1904, \$0.45. Average price machine mining, \$0.4725 per ton.

50		\$11,093	4	2	6			5,670	1,889		7,559	1
		900	2		2			650			650	2
50		\$11,993	6	2	8			6,320	1,889		8,209	
30,737	2,486	\$586,861	599	245	844	577,108	3,748	20,439	18,985	209	584,920	

Price paid for hand mining, local mines, from July 1, 1903 to April 1, 1904 \$0.56; from April 1, 1904, to July 1, 1904, \$0.53. Average price for year \$0.5445 per ton.

*Perry County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE				
			Total.	Mine run.	Lump.	Egg.	Net.
SHIPPING MINES.							
1	Willis C. M. Co., No. 1.....	Willisville.....	241,751	241,751			
2	White Walnut Coal Co.....	Pinckney ville.....	184,769	48,667	115,424		
3	Manuf'ers Fuel Co., Jupiter, No. 1.....	Duquoin.....	113,440	2,171	40,490	19,264	12
4	Lake Superior Coal Co.....	Duquoin.....	77,390		46,434		6
5	Manuf'ers Fuel Co., Jupiter, No. 4.....	Pinckney ville.....	65,458	2,532	40,258	205	5
6	Manuf'ers Fuel Co., Jupiter, No. 3.....	Duquoin.....	63,181		43,247	635	4
7	Mo. & Ill. Coal Co., No. 4.....	Willisville.....	62,024	60,774			
8	Little Muddy Coal Co.....	Tamaroa.....	51,200		44,943		
9	Greenwood-Davis Coal Co.....	Duquoin.....	51,094	328	15,000	7,664	11
10	Manuf'ers Fuel Co., Jupiter, No. 2.....	St. Johns.....	48,197	161	23,808	6,458	4
11	Chi.-Coulterville C. Co.....	Coulterville.....	32,892	16,446	12,000		
12	Perry County Coal Co., Perry.....	Duquoin.....	30,234	17,827	4,649		
13	Eaton Fuel Co., B. Diamond.....	Sunfield.....	21,975		14,650		
14	Strait Coal Co.....	Pinckney ville.....	11,415	2,730	6,280		
15	W. H. Wilson.....	Duquoin.....	10,000		5,000		2
16	Queen City Coal Co.....	Duquoin.....	8,000	8,000			
17	Manuf'ers Fuel Co., Jupiter, No. 5.....	St. Johns.....	3,562	1,680	1,170		
18	Horn's Colliery Co.....	Duquoin.....	110,184	110,184			
19	Soper & Co.....	Cutler.....	53,258	30,000	18,000	3,000	1
Totals .....			1,240,024	543,251	431,353	37,226	48
LOCAL MINES.							
1	Sycamore Coal Co., Sycamore....	Pinckney ville.....	150	75	60		
Totals .....			150	75	60		
Totals—20 mines .....			1,240,174	543,326	431,413	37,226	48.8

*Perry County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
		\$229,663	143	173	316	147,406	89,744	1,052	3,549	289	135,381	1
19,674	1,004	161,765	157	52	109	141,644	40,247	1,874	1,004	257	184,769	2
30,455	8,891	91,754	127	78	205	106,780	.....	2,650	4,010	235	113,440	3
24,765	.....	80,640	84	32	116	75,077	.....	480	1,825	275	77,390	4
11,825	5,066	57,462	94	47	141	60,782	.....	.....	4,676	197	65,458	5
12,398	1,996	57,984	78	40	118	61,381	.....	.....	1,800	201	63,181	6
.....	1,250	54,697	50	13	63	60,324	.....	450	1,250	155	62,024	7
6,257	.....	51,530	65	15	80	50,432	.....	380	1,388	150	51,200	8
6,132	10,218	53,858	50	18	68	45,174	.....	4,000	1,920	251	51,094	9
10,532	2,693	42,518	58	31	89	45,965	.....	.....	2,232	218	48,197	10
4,446	.....	28,513	35	6	41	30,892	.....	500	1,500	175	32,892	11
7,558	200	26,076	30	16	46	29,707	.....	327	2,000	200	30,234	12
6,025	1,170	21,345	35	17	52	21,000	.....	900	75	240	21,975	13
1,300	1,000	12,504	16	6	23	7,970	.....	2,845	600	155	11,415	14
2,500	.....	9,625	9	5	14	1,300	.....	6,700	.....	200	10,000	15
.....	.....	7,200	15	20	35	6,000	.....	500	1,500	160	8,000	16
712	.....	3,252	5	10	15	3,162	.....	.....	400	48	3,562	17
.....	.....	107,429	105	60	165	110,184	.....	.....	.....	220	110,184	18
.....	1,258	51,679	60	17	77	46,658	4,200	1,200	1,200	200	53,258	19
144,579	34,746	\$1,152,495	1,216	656	1,872	1,051,838	134,191	25,866	28,129	210	1,133,654	

NOTE—Price paid for hand mining, shipping mines, at nine mines from July 1, 1903 to Apr. 1, 1904, \$0.55; from April 1, 1904 to July 1, 1904, \$0.52; seven mines paid \$0.48, one mine \$0.50 and two mines \$0.51; average price for year \$0.5167 per ton; price paid for machine mining, shipping mine, \$0.48 per ton.

.....	15	\$165	2	.....	2	.....	.....	150	.....	.....	150	1
.....	15	\$165	2	.....	2	.....	.....	150	.....	.....	150	
144,579	34,761	\$1,152,660	1,218	656	1,874	1,051,838	134,191	26,016	28,129	210	1,133,801	

*Saline County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Davenport Coal Co., N. Ledford	Ledford	139,071	131,715	2,428		1,716
2	Clifton Coal Co., Clifton	Ledford	72,647	37,860	14,223		8,157
3	Gas Coal Co., No. 1	Harrisburg	67,000	50,000	8,000		3,300
4	Morris Coal Co., Green Gravel	Carrier Mills	9,410	9,410			
5	Eldorado Coal & Coke Co., No. 1	Eldorado	6,443	6,443			
Totals, 5 mines			294,571	235,428	24,649		13,373
LOCAL MINES.							
1	Casaway Bros., Diamond Joe	Eldorado	2,200		1,600		
2	Jobe Ingram, slope	Harrisburg	1,100		800		200
3	D. P. Bybee, slope	Harrisburg	370		280		50
4	Egyptian Coal & Coke Co., No. 1	Harrisburg	305	305			
5	Chas. Hart, slope	Cottage Grove	280		280		
6	Diamond Coal Co., Diamond	Harrisburg	250	250			
7	J. R. Lloyd, Shaft	Eldorado	150		100		
8	S. J. Moore, slope	Cottage Grove	150	150			
9	James Yates, slope	Cottage Grove	120		90		30
10	R. M. Barry, slope	Cottage Grove	100		100		
11	Sherman Dixon, slope	Harrisburg	64		60		4
12	Willis Henson, slope	Harrisburg	60		50		10
Totals, 12 mines			5,149	705	3,360		334
Totals and av'ges 17 mines			299,720	236,133	28,009		13,707

Mines in 1903, 16.

New mines, 3.

Abandoned, 2.

Mines in 1904, 17.

NOTE—Average price paid for hand mining, local mines, \$0.5025 per ton.

*Washington County—Seventh District—1904.*

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE.				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Hugh Murray, Nashville .....	Nashville .....	19,930	3,438	11,059	.....	1.96
	Totals .....	.....	19,930	3,438	11,059	.....	1.96

*Saline County—Seventh District—1904—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
214		\$112,173	100	42	142	117,106	20,091	624	1,250	265	139,071	1
407	2,000	70,435	50	23	73	70,647			2,000	179	72,647	2
	5,500	65,025	50	22	72	65,800		400	800	170	67,000	3
		9,410	12	7	19	9,000			410	100	9,410	4
		6,443	8	7	15	4,425		2,018		112	6,443	5
621	7,500	\$263,486	220	101	321	266,978	20,091	3,042	4,460	165	294,571	

NOTE—Price paid for hand mining, shipping mines, from July 1, 1903 to April 1, 1904, ; from April 1, 1904, to July 1, 1904, \$0.48; average for year, \$0.5018 per ton.

600		\$2,150	4	2	6			2,200		100	2,200	1
	100	1,725	6	1	7			1,100		50	1,100	2
		501	2	1	3			370		15	370	3
		305	4	5	9			305			305	4
		350	2	1	3			280			280	5
		250	4	4	8			200			250	6
		173	5	2	7			150	50		150	7
20	30	188	1	1	2			150			150	8
		162	3		3			120			120	9
		125	2		2			100			100	10
		78	2		2			64		10	64	11
		70	4		4			60			60	12
620	130	\$5,077	39	18	57			5,099		50	5,149	
241	7,630	\$269,563	259	119	378	266,978	20,091	8,141	4,510	165	299,720	

*Washington County—Seventh District—1904—Concluded.*

Tons.	Slack or waste.	Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
			Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
....	3,459	\$17,405	22	11	33	3,514	3,438	9,519	3,459	251	19,930	1
....	3,459	\$17,405	22	11	33	3,514	3,438	9,519	3,459	251	19,930	

NOTE—Price paid for hand mining \$0.55 per ton.

## Williamson County—Seventh District—1904.

Number.	NAME OF OPERATOR.	Postoffice Address of Mine.	OUTPUT OF MINE—				
			Total.	Mine run.	Lump.	Egg.	Nut.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co., No. 7	Herrin	412,887	122,711	77,328	23,287	183,850
2	Sunnyside Coal Co., No. 1	Herrin	345,767	13,517	111,910	23,064	135,965
3	Chicago & Cartersville C. Co., No. 1	Herrin	343,066	20,772	128,846	18,866	92,332
4	St. L. & B. M. C. Co., Dawes	Dewmain	227,261	43,802	42,097	27,276	29,865
5	Sou. Ill. C. M. & W. Co., No. 3	Marion	198,794	1,058	67,011	27,618	.....
6	New Virginia C. Co., No. 1	Lake Creek	165,710	59,947	25,458	22,133	22,119
7	Sou. Ill. C. M. & W. Co., No. 3	Marion	157,305	472	46,841	17,393	31,557
8	Chicago-Herrin C. Co.	Herrin	147,571	1,580	12,918	17,565	695
9	Chicago & B. M. C. & C. Co., No. 1	Marion	128,429	.....	41,374	20,310	13,023
10	Williamson Co. Coal Co.	Lake Creek	128,331	104,941	9,208	7,949	2,004
11	Johnson City & B. M. C. M. Co.	Lake Creek	128,399	72,772	13,736	10,055	10,698
12	Cartersville Coal Co., Burr	Cartersville	125,223	4,882	18,033	42,826	15,402
13	New Ohio Washed C. Co., No. 1	Cartersville	112,736	.....	22,168	34,200	.....
14	Cartersville Dist. C. Co.	Marion	101,497	88,000	2,668	2,550	3,455
15	Cartersville Coal Co., No. 2	Cartersville	84,348	1,857	18,978	14,086	.....
16	Donal Koenneck C. Co.	Cartersville	74,048	33,488	14,491	4,330	.....
17	Robt. Dick Coal Co.	Cartersville	61,821	1,500	15,080	15,080	2,306
18	Cartersville & Big Muddy Coal Co.	Lauder	27,831	.....	6,962	5,562	.....
19	Western Coal & M. Co., No. 1	Bush	18,821	18,821	.....	.....	.....
20	Chi. & Marion C. Co., White Ash	Marion	14,266	14,266	.....	.....	.....
21	Cartersville Mining Co.	Herrin	10,884	5,875	644	774	.....
22	Cartersville & Herrin C. Co.	Herrin	5,950	2,000	500	800	450
23	M. Hampton	Cartersville	3,935	886	732	1,115	526
24	St. L.-C. C. Co., Walnut Ridge	Herrin	2,357	2,357	.....	.....	.....
25	Watson Coal Co., No. 1	Cartersville	200	200	.....	.....	.....
			3,027,377	614,704	676,983	336,839	544,503
LOCAL MINES.							
1	Adam Young	Cartersville	2,600	2,600	.....	.....	.....
2	Cartersville Diamond Co.	Cartersville	1,600	1,600	.....	.....	.....
3	Spiller & White Cotton	Crab Orchard	1,200	1,200	.....	.....	.....
4	E. E. Ensinnper	Crab Orchard	1,200	240	960	.....	.....
5	Motsinger Bros.	Crab Orchard	870	.....	720	.....	.....
6	George Wilson	Marion	700	700	.....	.....	.....
7	Albert Absher	Absher	700	700	.....	.....	.....
8	W. J. Powel	Cartersville	600	600	.....	.....	.....
9	Reese & Crain	Cartersville	600	600	.....	.....	.....
10	Frank Harris	Crab Orchard	500	500	.....	.....	.....
11	Thomas Parritt	Cartersville	269	.....	109	65	35
12	W. S. Tarpley	Crab Orchard	250	.....	250	.....	.....
Total—12 mines			11 089	8,740	2,039	65	55
Totals—37 mines			3,038,466	623,444	679,022	336,904	544,538

Mines in 1903, 31.

New mines, 6.

Mines in 1904, 37.

## Williamson County—Seventh District—Concluded.

N TONS.		Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	Number.
Pea or screenings.	Slack or waste.		Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			
2,747	2,984	\$446,455	267	93	360	397,563	.....	3,279	12,045	257	412,887	1
14,032	47,249	353,674	205	118	323	318,846	.....	1,543	25,378	258	345,767	2
45,993	35,947	350,692	210	93	303	329,268	.....	2,702	11,036	254	343,006	3
54,504	29,714	237,871	185	70	255	205,941	2,551	1,516	17,253	248	227,261	4
103,107	.....	191,148	140	61	201	120,776	.....	78,018	.....	153	40,771	5
35,983	.....	143,523	125	87	212	165,710	.....	.....	.....	264	165,710	6
61,042	.....	155,234	120	71	191	150,064	.....	7,241	150	94	689	7
55,469	59,344	84,043	97	34	137	143,980	.....	2,160	1,431	240	147,571	8
53,717	.....	110,141	119	61	180	125,023	.....	170	3,236	186	78,922	9
4,229	.....	124,724	110	62	172	124,931	.....	.....	3,400	203	128,331	10
21,138	.....	114,754	95	37	132	124,969	.....	400	3,000	161	128,399	11
18,533	26,547	100,329	87	60	147	120,373	.....	1,200	3,650	266	125,223	12
56,368	.....	102,589	90	51	141	106,000	.....	1,936	4,800	208	112,736	13
3,944	860	87,067	65	54	119	96,987	.....	.....	4,510	216	.....	14
49,427	.....	70,169	46	39	85	82,056	.....	.....	2,292	254	84,438	15
18,819	2,920	75,613	80	32	112	70,828	.....	300	2,920	243	74,048	16
27,882	75	57,792	64	24	88	60,571	.....	250	1,000	188	61,821	17
15,307	.....	22,752	96	38	134	27,431	.....	.....	400	208	27,831	18
.....	.....	17,880	40	30	70	18,649	.....	.....	.....	225	8,469	19
.....	.....	14,266	10	11	21	12,979	1,287	172	.....	150	.....	20
2,648	943	10,638	30	11	41	9,801	.....	.....	943	50	10,884	21
2,200	.....	4,990	12	9	21	5,900	.....	50	.....	50	5,950	22
293	383	4,365	4	6	10	926	.....	3,009	.....	233	3,935	23
.....	.....	1,650	6	5	11	1,257	.....	985	115	105	2,357	24
.....	.....	140	4	4	8	141	.....	49	10	40	200	25
647,382	206,966	\$2,882,499	2,307	1,161	3,468	2,821,100	3,838	97,779	104,660	210	2,631,116	
NOTE.—Price paid for hand mining shipping mines from July 1, 1903 to April 1, 1904, \$0.48, from April 1, 1904 to July 1, 1904, \$0.45, average price for year \$0.4692 per ton, average price for machine mining, shipping mines \$0.3924 per ton.												
.....	.....	\$3,900	4	.....	4	.....	.....	2,600	.....	.....	2,600	1
.....	.....	2,400	3	.....	3	.....	.....	1,600	.....	.....	1,600	2
.....	.....	1,800	3	.....	3	.....	.....	1,200	.....	.....	1,200	3
.....	.....	1,140	3	.....	3	.....	.....	1,200	.....	.....	1,200	4
.....	150	750	3	.....	3	.....	.....	720	150	125	870	5
.....	.....	1,050	3	.....	3	.....	.....	700	.....	.....	700	6
.....	.....	1,050	3	.....	3	.....	.....	700	.....	.....	700	7
.....	.....	900	3	.....	3	.....	.....	600	.....	.....	600	8
.....	.....	900	2	.....	2	.....	.....	600	.....	.....	600	9
.....	.....	750	3	.....	3	.....	.....	500	.....	.....	500	10
.....	60	247	4	.....	4	.....	.....	289	.....	.....	289	11
.....	.....	375	2	.....	2	.....	.....	225	25	60	250	12
.....	210	15,262	36	.....	36	.....	.....	10,914	175	185	11,089	
647,382	207,176	\$2,897,761	2,343	1,161	3,504	2,821,100	3,838	108,693	104,835	.....	2,642,205	

Average price paid for hand mining local mines for the year, \$0.4693 per ton.



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Franklin .....	1	4,240	4,240	.....	.....	.....	.....	.....	\$ 4,240
Gallatin .....	2	61,241	.....	32,802	.....	15,831	12,608	.....	60,550
Jackson .....	9	845,716	104,877	421,210	20,223	33,820	233,784	31,802	924,923
Perry .....	19	1,240,024	543,251	431,353	37,226	48,869	144,579	34,746	1,152,465
Randolph .....	11	612,071	299,485	268,668	500	1,245	39,687	2,486	574,883
Saline .....	5	294,571	235,428	24,649	.....	13,373	13,621	7,500	283,196
Washington .....	1	19,930	3,438	11,059	.....	1,974	.....	3,459	17,405
Williamson .....	25	3,027,377	614,704	676,983	336,839	544,503	647,382	206,966	2,882,469
Totals .....	73	6,105,170	1,803,423	1,866,724	394,788	659,615	1,091,661	286,939	\$5,880,266

10,218 tons reported without value not considered in obtaining average value.  
 23,587 tons reported without value not considered in obtaining average value.

*venth District—1904—Shipping Mines.*

EMPLOYEES.		DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at mines.			By hand.	By machines.	Hand mining.	Machine mining.		
.....	.....	2,845	50	20	1,325	....		4,240	.....	\$0.55	.....	3	1
0 35	105	42,487	3,835	9,708	5,212	203		61,241	.....	0.5025	.....	4	1
4 459	1,213	721,406	69,912	9,731	44,667	213		297,901	497,815	0.4793	\$0.4257	50	8
6 656	1,872	1,051,838	134,191	25,866	28,129	210		1,133,654	106,370	0.5167	0.48	41	17
8 243	836	577,108	3,748	14,119	17,096	209		576,711	35,360	0.5444	0.4725	21	11
10 101	321	266,978	20,091	3,042	4,460	165		294,571	.....	0.5018	.....	13	5
12 11	33	3,514	3,438	9,519	3,459	251		19,930	.....	0.55	.....	2	1
17 1,161	3,468	2,821,100	3,838	97,779	104,660	210		2,631,116	396,261	0.4692	0.3924	80	17
82 2,666	7,848	5,487,276	239,103	169,783	209,008	207		5,069,364	1,035,806	\$0.4952	\$0.4209	214	61

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin.....	4	7,170	1,700	3,970	1,150	.....	350	.....	\$10,440
Hamilton.....	1	2,000	2,000	.....	.....	.....	.....	.....	1,000
Jackson.....	9	16,925	13,425	1,800	.....	1,000	700	.....	21,538
Jefferson.....	3	29,967	25,989	2,039	646	.....	.....	1,293	33,728
Johnson.....	3	3,050	1,300	1,150	.....	50	275	275	3,281
Perry.....	1	150	75	60	.....	.....	.....	15	15
Randolph.....	2	8,209	1,839	6,220	.....	.....	50	.....	11,838
Saline.....	12	5,149	705	3,360	.....	334	620	130	6,077
Williamson.....	12	11,089	8,740	2,039	65	35	.....	210	13,282
Totals and averages	47	83,709	55,873	20,638	1,861	1,419	1,995	1,923	105,331
Totals in districts—all mines.....	120	6,188,879	1,861,296	1,887,362	396,649	661,634	1,063,656	288,882	\$5,985,737

Total number of mines reported for 1903—134.

Number of new mines in 1904—18.

Number of mines abandoned and not reported—32.

Number of mines in 1904—120.

*enth District—1904—Local Mines.*

EMPLOYES.		DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of steam boilers.	Number of fans.
All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.		
1	11			7,170			7,170		\$0.48			
3	3			2,000			2,000		0.48			
3	33			9,923	7,002		16,925		0.50		1	
17	55		23,372	6,595		182	29,967		0.53		2	1
7	14			2,950	100	100	3,050		0.55			
	2			150			150		0.52			
2	8			6,320	1,889		8,209		0.5525			
19	57			5,099	50		5,149		0.5830		5	1
	36			10,914	175		11,089		0.4965			
47	219		23,372	51,121	9,216	137	83,709		\$0.5202		8	2
2,713	8,067	5,487,276	262,475	220,904	218,224		5,153,073	1,035,806	\$0.4956	\$0.4209	219	63

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# APPENDIX

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**Supreme Court Opinions, Relating to Damages for Accidents  
in Coal Mines.**

**REGISTER OF CERTIFICATED—**

**MINE MANAGERS.**

**HOISTING ENGINEERS.**

**MINE EXAMINERS.**

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**Illinois Free Employment Offices**

**SIXTH ANNUAL REPORT.**

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SOME RECENT OPINIONS OF THE SUPREME COURT OF ILLINOIS, RELATING TO ACTIONS BROUGHT TO RECOVER DAMAGES FOR ACCIDENTS OCCURRING IN COAL MINES.

SUPREME COURT OF ILLINOIS.

Chicago, Wilmington & Vermilion Coal Company

v.

Thomas Moran.

Appeal from the Appellate Court for the Second district—heard in that court on appeals from the Circuit Court of LaSalle county; the Hon. H. M. Trimble, Judge, presiding.

Mr. Justice Cartwright delivered the opinion of the Court:

On January 26, 1901, the appellee, Thomas Moran, a boy 16 years of age, was working with his father, Patrick Moran, in a coal mine of the appellant, the Chicago, Wilmington & Vermilion Coal company, at Seatonville, Illinois. Appellant paid Patrick Moran by the ton for the coal mined by himself and his minor son, the appellee. They worked in room 77 and their method was to undercut or take out six inches of clay under the vein of coal, which was about three feet and six inches thick. The full width of the room was forty-two feet and after removal of the coal it was about four feet high. They also took down the ledge of rock, two feet thick and nine feet wide, above the coal, which was the width of the entry behind the room and they used the rock to build the walls on either side of the entry-way, so that the entry was six feet high. In this way the room advanced in distance from the shaft about three feet each day and the entry-way was correspondingly lengthened. The entry-way was in the center of the forty-two foot room. Tracks were laid in the entry, and when a car was filled the driver would take it out and put in an empty car. Some time previously props had been furnished the appellee and his father to hold up the roof over the room and were placed in the entry near the coal, but the company men who attended to the passageway at night, repaired tracks and did other work for the company, found them in the way and carried them back into the entry and laid them along the track. Appellee and his father needing props to support the roof, appellee went along the entry to the place where props furnished them had been put and sawed a prop and then began sawing a cap. He had laid the cap across the track and was on his knees sawing it, when a rock fell from the roof upon him seriously and permanently injuring him. He brought this suit by his father, as next friend, to recover damages for his injury.

There were five counts in the declaration, the first three of which charged the defendant with negligently allowing the roof of the entry-way to be and remain in a dangerous and unsafe condition. The fourth charged that defendant knowingly and wilfully furnished props, caps and timbers to be used by plaintiff, in an unsafe and dangerous place. The fifth charged defendant with wilfully and negligently omitting the duties of inspection by a *mine examiner, provided by statute*. There was a plea of the general issue and a plea that plaintiff was not in the employ of the defendant when



injured. Upon a trial the defendant was found guilty and the plaintiff's damages were assessed at \$5,000. Judgment was entered on the verdict and was affirmed by the Appellate Court for the Second district.

The assignment of errors covers the refusal of the Court to admit evidence offered by the defendant, the giving of instructions on the part of the plaintiff, and the modification of some instructions and the refusal of others submitted by the defendant, and the overruling of defendant's motion in arrest of judgment.

On the trial defendant examined James Cherry as a witness, and he testified that he was the person whose name appeared as one of the signers of an agreement of which the pamphlet was a copy, and that he signed such agreement. The defendant then offered in evidence certain articles of the pamphlet, which purported to be a copy of an agreement signed by various persons on behalf of the coal mine operators and other persons on behalf of the United Mine Workers. The material article offered related to the duty of a miner to notify that suitable props and caps were needed, and not to continue work until they were furnished. The evidence tended to prove that the plaintiff and his father were working in accordance with an agreement between the Operators' association and the United Mine Workers. They were members of the United Mine Workers of Illinois and plaintiff belonged to the local organization at Seatonville, where the mine was. The evidence was objected to because not the best. No foundation was laid for the introduction of the alleged copy and the absence of the original was not accounted for. Section 18 of the act in regard to evidence and depositions, which counsel insist authorizes the introduction of a copy, relates only to papers, entries and records mentioned in the previous sections and does not authorize the introduction of copies of contracts between parties. The ruling was right, and the evidence would have availed nothing to the defendant if it had been admitted. Props and caps had been furnished for the use of the plaintiff and his father in such place as the defendant saw fit to deposit them for that use, and the same witness, Cherry, who was superintendent of the mine, testified that if props were furnished as these were, the plaintiff would have the right, as a matter of course, to go and get them. If fact, that was never controverted at the trial. The only dispute was whether plaintiff had a right to stop in the entry to saw them.

The same witness was asked if there was any service or duty of a coal miner to be performed in the roadway or entry-way, and an objection was sustained. The witness had been in the business of coal mining for 50 years and the question called for an answer as to a matter of fact which would have been proper for the jury to know. The witness, however, testified that the entries and roadways were for the miners to travel to and from their work and for transportation of coal and empty cars, and there was no evidence or claim that they were intended primarily for work. We therefore think that the ruling did no harm. The reason offered by plaintiff for sawing the prop and cap in the entry-way was that there was plenty of height and space there, while in the room at the face of the coal there was not sufficient height.

There was also evidence that the pit-boss assured the plaintiff that the roof was safe, and evidence that the entry-way was the only suitable place for preparing the props and caps. The evidence for plaintiff was that his father called the attention of the pit-boss to the roof about ten days before the accident, and the pit-boss said he would send men to fix it, and told him to go ahead and work, that he thought it was safe enough; also that two days before the accident the father met the pit-boss again and told him he had better go in and fix the roof, that it was getting worse; and the pit boss said he would fix it as soon as he could get around to it; that they should keep at work and nothing would happen. The father testified that on the occasion two days before the accident the pit-boss told him he would fix it some time; that it was all right and that he would have to let the roof settle before fixing it. The pit-boss testified that two or three days before the accident he looked over the place and found it bad and notified the father that he would have it attended to. There can be no reasonable doubt that

which fell had been loose and the top of the entry-way cracked; the defendant had notice of it at least two days before the accident and the negligence in not using reasonable diligence to make it reasonable. It was in consequence of such negligence, about which there was no controversy or dispute, that the accident happened. There was no evidence tending to prove a defense, unless the plaintiff was guilty of contributory negligence in sawing the prop and cap in the entry-way instead of carrying them to the face of the coal for that purpose.

The court gave three instructions at the instance of the plaintiff relating to the question of damages, and purporting to state the various things which the jury might consider. The instructions are lengthy and repeat the arguments which enter into the damages in such cases and the things which were to be considered by the jury, and are objectionable on account of their length. It is not a proper practice to give instructions creating the impression that particular evidence or a particular fact is of prime importance.

The view of the Court, and laying special stress upon it. These instructions, however, contain no improper elements, and it is conceded that the damages awarded are only fairly compensatory, so that they had, in this respect, no improper or injurious effect.

The defendant asked the Court to give the jury twenty-nine instructions, of which sixteen were refused, eight were modified, and given as modified, and the remainder were given as asked. The instructions are very lengthy, and the number and length preclude a review of them severally.

The eighteenth, nineteenth and twentieth, which were refused, were designed to inform the jury that plaintiff was guilty of negligence in preparing the prop and cap in the entry-way and would have taken from the jury the question whether, under the circumstances, he was in the exercise of ordinary care in sawing them where they had been deposited by the defendant for his use. They were properly refused for that reason.

The twenty-fourth, which was refused, stated what would constitute the negligence of the father and his fellow-servants in law, and that if the plaintiff was injured by the negligence of his father in placing him in a position of danger, they must find the defendant not guilty. The Court was in error in refusing that instruction, for the reason that the defendant had been guilty of negligence beyond all doubt or dispute, and, being responsible for the consequence of its own negligence, it would be liable no matter how negligent a fellow-servant might have been.

Instructions No. 25 and 26 relate to the assumption of risk by the plaintiff, and were refused. It is urged that the plaintiff disregarded his duty in leaving the room to work in the entry-way with knowledge of the danger, and that he assumed the risk, and that the father was chargeable with the care of the plaintiff, and if the father knew the roof in the entry was bad he should not call for props and caps to be delivered at the room, the son assumed the risk. The instructions ignored the evidence that plaintiff and his father were assured by the pit-boss that the roof was safe and to go on with the work, as well as all the other circumstances tending to show that plaintiff did not assume the risk, and they were properly refused.

The principle stated in the twenty-first instruction, which was refused, to the effect that if the plaintiff was injured while doing something outside of the scope of his employment in an improper place, voluntarily, or by the direction of his father, and without knowledge or direction of the defendant, he could not recover, was fully covered by other instructions that were given.

The remaining instructions offered by the defendant and refused, severally relate to each count, and stating that the plaintiff could not recover on such count, and they were all refused. There was no evidence to sustain the fourth and fifth counts, but the first three counts each stated a good cause of action, and there was evidence tending to sustain them. The court might properly have given the instructions relating to the fourth and fifth counts, but inasmuch as the first three counts each stated a cause of action and the evidence was applicable to them, the refusal of the instructions relating to the fourth and fifth is not ground for reversal.

Instruction No. 28, which was refused, stated that if plaintiff's father used him as an assistant and received the earnings from their joint work, the father was a mere licensee. The evidence was, that the ticket put on their

car was Moran and son; that they worked jointly for the defendant and that the father collected the pay, to which he was entitled on account of the minority of the son. The instructions was not the law and was properly refused.

Some instructions were purely abstract, and it was not error to refuse them. Instruction No. 25 was of that character.

There was no error in any modification made by the court except in instruction 12. The instruction as asked defined the words "contributory negligence" and stated that if the plaintiff was guilty of such negligence the jury must find the defendant not guilty, even though they might believe the defendant was chargeable with negligence in the matters complained of in the declaration. The Court modified it so as to permit a recovery if the plaintiff by his own negligence contributed to the injury complained of, if the jury also believed, from the evidence, that the defendant was chargeable with gross negligence. As modified it was incorrect, since the law does not permit a recovery by a plaintiff guilty of contributory negligence, on the ground that the negligence of the defendant was gross. Nothing short of a willful act or willful or intentional neglect of duty will authorize a recovery by a plaintiff guilty of negligence contributing to the injury complained of. As the modification was clearly wrong, the only question is whether it ought to work a reversal of the judgment. The plaintiff was a minor, 16 years of age, and there was evidence that he had been assured by the pit-boss that the place was safe and had been directed to go on with his work. It is also beyond question that the only place fit for sawing props or caps was in the entry-way. The props which had been placed in such entry-way near the face of the coal, had been moved back by the defendant to the place where plaintiff attempted to saw them. We do not think, when the whole evidence is considered, that there was anything fairly tending to prove that plaintiff was guilty of contributory negligence or that the jury could have so found if the instructions had been given as asked, and therefore we do not regard the modifications as error for which the judgment should be reversed.

There was a motion in arrest of judgment, which, it is said, ought to have been sustained because the first count is not sufficient to sustain the judgment. We are of the opinion that the first count is good, and if it were not, the second and third are, and where there is one good count a motion in arrest of judgment must be denied.

The judgment of the Appellate Court is affirmed.

Judgment affirmed.

The Spring Valley Coal Company,

v.

Joseph Robizas

Appeal from the Appellate Court for the Second District: Heard in that court on appeal from the Circuit Court of Bureau County; the Hon. H. M. Trimble, Judge, presiding:

Mr. Justice Cartwright delivered the opinion of the court:

In this case appellee obtained a judgment in the Circuit court of Bureau county, for \$1,750.00 on account of personal injuries sustained by him while in the employ of appellant as a miner in its coal mine No. 3, in the city of Spring Valley. Appellant appealed to the Appellate Court for the Second District, and from the judgment of that court affirming said judgment prosecuted this appeal.

The trial was by jury, and at the close of the evidence the defendant asked the court to instruct the jury to return a verdict of not guilty. The motion was denied and the instructions refused, and the ruling is assigned as error.

The declaration contained three counts. The charge against the defendant in the first count was, that it failed to provide plaintiff with a reasonably safe place to work, but permitted the same to remain in an unsafe and dangerous condition. The second count charged that the defendant delivered empty cars for the use of plaintiff in a careless, negligent manner, by leaving them in such a position that a portion of one of them protruded into the

main entry near the track on which loaded cars were hauled, by reason of which such loaded cars struck the protruding car, and, hurling it against the plaintiff, injured him. The third count charged negligence in the mule driver in driving the mule drawing the loaded cars so negligently and carelessly that the collision occurred:

There was no evidence tending to sustain the charge in the first count. The injury to plaintiff did not result from any failure to furnish him with a reasonably safe place to work. The accident happened in this way: Plaintiff was paid by the ton for mining coal and loading it on cars, and was assisted by his son, a boy about 14 years' old. Defendant furnished him with empty cars, which it was usual to leave for him in the entry to a room adjoining the room where he worked and about 50 feet distant. When he needed an empty car he was accustomed to go there and get one, and push it along the main entry into his room and up to the face of the coal, where it was loaded and afterward hauled out by a mule. In the main entry there was a track along which the cars were hauled, and four empty cars had been left in the entry of the adjoining room by one of the mule drivers. At the time of the accident plaintiff sent his boy to the adjoining room to get an empty car. One of these cars had some props in it, and for that or some other reason the boy was unable to move the car. The plaintiff came out of his room, and went along the main entry toward the place where the empty cars were standing, and when about 20 feet distant he saw a driver approaching along the main track with a mule and two loaded cars. He hastened to the place where the cars were and stepped into the side entry where they stood. The mule was trotting or running, and when he neared the place the driver saw that the first standing car was very close to the main track. The first loaded car struck it and the second one knocked it off the track against the plaintiff, crushing him against the side of the entry. The accident was caused by the loaded car striking the empty car and throwing it against the plaintiff, and was not due, in any sense, to any defect or imperfection in the place where the plaintiff was required to work or to any fault or negligence of defendant concerning the same. He was in a place of entire safety if the car had not been too near the main track so as to be struck by the passing loaded cars. The place was dangerous only in the sense that a negligent act causing an injury is always connected with some place. The evidence for the plaintiff tended to show that the empty cars had been negligently left in that position by the mule driver. There was a slight descent to the main track, and the driver testified that he placed the cars at a safe distance and blocked them with a stone, and that the boy and two men who were there at the time must have moved them afterwards. The evidence was conflicting and it was proper to submit that question to the jury.

It is also contended that the court ought to have directed a verdict because plaintiff and the mule driver were fellow servants. On the other hand, it is insisted that the duty to furnish a safe place to work was one owing by the defendant to the plaintiff, and that, therefore, it would make no difference whether the mule driver was a fellow servant of the plaintiff or not. There being no evidence tending to show that the character of the place was such as to render it dangerous, the rule invoked does not apply. The only cause of the injury was the alleged negligent act of the mule driver, and it was a material question whether the parties were fellow servants. The testimony was that their duties were wholly independent of each other, and under the evidence the question was one of fact.

It was not error to refuse to direct a verdict for the defendant.

An instruction was given at the request of the plaintiff requiring the jury to find the defendant guilty if the plaintiff was in the exercise of ordinary care, and was struck and injured by one of defendant's cars because of a failure on defendant's part to exercise ordinary care to supply reasonably safe places of refuge along the hauling road, not more than 60 feet apart, as required by law. There are several objections to this instruction. It was erroneous because there was no evidence whatever that the accident occurred because of the want of a place of refuge along the main track. Furthermore, the instruction was based on a statute which provides that such places shall not be required in entries from which rooms are driven at regular intervals not exceeding 20 yards, and the undisputed evidence was that the rooms were

so driven from the entry in question. It was also erroneous because the declaration was not founded upon any violation of the statute, but on negligence at common law, independently of the statute. The instruction was neither applicable to the issue nor the evidence, and it could not be cured by any other instruction because it directed a verdict upon proof of the hypothesis of fact contained in it. While that is true, the record shows that both parties tried the case upon the same theory in that respect. The defendant asked and the court gave an instruction stating the exception, that the statute did not require the defendant to have a place of refuge cut in the side wall of the hauling road where the plaintiff was injured if rooms were divided from the said roadway at regular intervals, not exceeding 20 yards apart. If the case was tried upon an incorrect theory concerning the application of the statute to the case, both parties adopted the theory. The defendant having obtained from the court an instruction applying the statute to the case, cannot be heard to complain that it was also applied in another instruction given at the request of the plaintiff.

The judgment of the Appellate Court is affirmed.  
Judgment affirmed.

The Marquette Third Vein Coal Company,

v.

Patrick Dielie.

Appeal from the Appellate Court for the Second District—heard in that court on appeal from the Circuit Court of Bureau county; the Hon. George W. Brown, judge, presiding.

Mr. Chief Justice Hand delivered the opinion of the court:

This is an action commenced in the Circuit Court of Bureau county by the appellee, a minor under the age of fourteen years, by his next friend, against the appellant, to recover damages for a personal injury sustained by him while in the employ of the appellant as a "trapper" in its coal mine. The case was tried upon a declaration containing three counts. The first count charged the appellant with negligence in failing to provide appellee a safe place in which to work. The second count charged the appellant with a wilful violation of the twenty-second section of the Mines and Miners act, in having employed and permitted appellee, a minor under the age of fourteen years, to work in its mine, and without having produced to it, by him, an affidavit that he was fourteen years of age, by means whereof he was injured. The last count charged that plaintiff was under fourteen years of age; that the defendant was aware of that fact, and that he was carelessly, negligently, unlawfully and wrongfully employed by the defendant to work in its mine, and that by reason of being permitted to work in said mine, and because of his youthful indiscretion, he was injured. The general issue was filed, and a trial resulted in a verdict and judgment in favor of appellee for the sum of \$4,000, which judgment has been affirmed by the Appellate Court for the Second District, and a further appeal has been prosecuted to this court.

It is first contended that there is a misjoinder of causes of action in the several counts of the declaration, the position of the appellant being, that an action for negligence, at common law, in failing to furnish appellee a safe place in which to work, and an action for a wilful violation of the Mines and Miners act by employing and permitting appellee, a minor under fourteen years of age, to work in its mine, and without having produced to it, by him, an affidavit that he was fourteen years of age, cannot be joined in the same declaration. The counts are based upon the same state of facts, and if the appellant is liable to appellee for damages for negligence as at common law, and also liable to him for damages by reason of a wilful violation of the Mines and Miners act, no valid reason has been suggested why said causes of action may not be joined in different counts of the same declaration. To hold otherwise would be to hold appellee must bring two actions against the appellant based upon the same state of facts, or abandon one of said causes of action.

The test by which to decide as to the joinder of counts,—that is, what actions may be joined in separate counts of the same declaration—is thus stated in Chitty's Pleadings (vol. 1, p. 200): "The result of the authorities is stated to be, that 'when the same plea may be pleaded and the same judgment given on all the counts of the declaration, or whenever the counts are of the same nature, and the same judgment is to be given on them all, though the pleas be different, as in the case of debt upon bond and on simple contract, they may be joined.'"

In *Hays v. Borders*, 1 Gilm. 46, on page 50, the rule is announced in substantially the same language. It is there said: "It is objected to the declaration that it is defective by reason of a misjoinder of counts and causes of action, in this; that it contains counts for a penalty founded on statute, and others for such damages as could have been recovered at common law. The result of authorities on the subject of the joinder of different forms of action is said to be, that 'when the same plea may be pleaded and the same judgment given on all the counts of the declaration,' or 'wherever the causes of action are of the same nature and may properly be the subject of counts in the same species of action, they may be joined, otherwise they cannot.'"

In *Brady v. Spruck*, 27 Ill. 478, on page 482, the court, again speaking upon the subject through Mr. Justice Breese, said: "The rules of correct pleading allow several causes of action of the same nature to be joined in one count and a recovery had *pro tanto*. The defendant can plead specially to each cause of action. (*Godfrey v. Buckmaster*, 1 Scam. 447). Different actions cannot be joined in the same declaration. The rule is, that when the same plea may be pleaded and the same judgment rendered on all the counts they may be joined."

In *Fairfield v. Burt*, 11 Pick. 244, the court through Mr. Chief Justice Shaw, on page 246 said: "It is further objected that a count on the statute for double damages cannot be joined with counts at common law for damages of like kind. It is difficult to perceive how, either upon principle or authority, this position can be maintained. The form of action is the same. The statute of 1812, (chap. 146, sec. 3), providing that the owner of a dog shall forfeit and pay double the damage done by such dog, further provides that it may be recovered by action of trespass. It only affects the rule for assessing damages. The plea is the same and the judgment is the same, and therefore the case comes within the rule regulating the joinder of causes of action."

It is the practice in this State to try personal injury cases under declarations the separate counts of which charge negligence and willful and wanton misconduct: (*Chicago Terminal Transfer Railroad Co. vs. Gruss*, 200 Ill., 196); and although the rules of law as applied to the separate counts of such a declaration are not the same, it has never been thought for that reason such counts could not be joined in the same declaration. We are of the opinion there was no misjoinder of counts or causes of action in said declaration, but that the counts for negligence at common law and for a willful violation of the statute were properly joined in said declaration.

At the close of the plaintiff's evidence, and again at the close of all the evidence, the defendant asked the court to peremptorily instruct the jury to return a verdict in his favor, which the court declined to do. The evidence introduced on behalf of plaintiff fairly tended to show that he was a minor under the age of 14 years, that he was in the employ of the defendant as a "trapper," for which service he was paid one dollar per day; that it was his duty to open certain doors in an entry in the mine for cars drawn by mules to pass through, and to immediately close the doors after the cars had passed, and to keep them closed except when cars were passing, in order to prevent the escape of air which had been forced into the mine, and, when the cars were stalled in the vicinity of his doors, to assist the driver in starting the cars. He had charge of two doors, situated about 40 feet apart. On the 26th of April, 1902, a train of cars became stalled near appellee's doors. He went to the assistance of the driver, got behind the cars and blocked the rear wheels when the mules stopped, to prevent the train from backing down the grade. When the train was started, to get to the doors and open them that the train might pass through, it was necessary for him to pass the cars when

they were in motion. At a point between where the the cars had stalled and his doors, a timber projected from the wall to within a few inches of the cars. He had passed the place frequently, but testified that he had not observed the proximity of the timber to the cars as they passed it. He was caught between the timber and the cars and seriously injured.

At the time appellee entered the employ of appellant he was under 13 years of age, and had been in its employ about five months at the time of the injury and no affidavit was produced by him to the defendant or its mine manager, at the time he entered its employ, that he was 14 years of age. The statute is as follows: "No boy under the age of 14 years, and no woman or girl of any age shall be permitted to do any manual labor in or about any mine, and before any boy can be permitted to work in any mine he must produce to the mine manager or operator thereof an affidavit from his parent or guardian or next of kin, sworn and subscribed to before a justice of the peace or notary public, that he, the said boy, is 14 years of age." (Hurd's Statutes, 1899, chap. 93, sec. 22.) Section 33 of said act makes any willful neglect, refusal or failure to do the things required to be done by any provision of the act on the part of a person required to do them, or any violation of any of the provisions or requirements of the act, a misdemeanor, punishable by fine or imprisonment. It also enacts "For any injury to person or property, occasioned by any willful violation of this act, or willful failure to comply with any of its provisions, a right of action shall accrue to the party injured, for any direct damages sustained thereby."

If the evidence fairly tends to support the cause of action set out in the declaration it is the duty of the court to submit the case to the jury. We think the evidence found in this record fairly tended to support the several causes of action set out in the different counts of the declaration, and that the court did not err in refusing to take the case from the jury.

It is also urged that the last count of the declaration is insufficient, in that it does not charge a willful violation of the statute. The statute provides that a willful violation thereof, or a willful failure to comply with its provisions, shall give a right of action against the mine owner to a person injured, for any direct damages which the injured party may sustain by reason of such violation. The count charges the plaintiff was under 14 years of age; that the defendant had notice of that fact, yet it wrongfully and unlawfully employed plaintiff and permitted him to work in its mine, contrary to the statute, etc. A willful violation, within the meaning of the statute, signifies a conscious violation thereof. (Odin Coal Co. v. Denman, 185 Ill., 413; Donk Bros. Coal and Coke Co., v. Peton, 192 Id., 41.) The sufficiency of the count was not challenged by demurrer or otherwise, and we think the averment "wrongfully and unlawfully," found in the count, a sufficient averment of the conscious violation of the statute after verdict.

It is also said that it does not appear that the violation of the statute by the appellant by its employing appellee, who was a minor under the age of 14 years, and without requiring him to produce to the appellant an affidavit that he was 14 years of age, was willful or the proximate cause of the injury. The statute makes it unlawful for a mine owner to employ or permit a boy under 14 years of age to perform manual labor in or about a mine, and further provides that before any boy can be permitted to work in a mine he must produce to the mine manager or operator an affidavit from his parent or guardian or next of kin that he is 14 years of age. The second count of the declaration alleged that appellee was under 14 years of age, and that no affidavit was produced by him that he was 14 years of age, to the defendant, or its manager, at the time he entered the employ of the defendant, and the evidence tended to support the averment. The object sought to be accomplished by the statute was to prevent the employment of boys of immature years in the coal mines of this State, and we think in case the statute is violated and a boy is injured while engaged in performing manual labor which is employed or permitted to do in a mine, the statutory liability for damages has accrued, and in such case the questions of a willful violation of the statute and the proximate cause of the injury are questions of fact for the jury, which facts are conclusively settled by the judgment of the Appellate Court, if there is any evidence in the record upon which to base a finding. Pullman Palace Car Co. v. Laack, 143 Ill., 242; Swift & Co. v. Rutkowski, 182 Id., 18.

It is urged the Court misdirected the jury on behalf of appellee. The Court gave to the jury one or more instructions in which they were informed that if they believed plaintiff was injured in consequence of the negligence of the defendant, as charged in the declaration, they should find the defendant guilty. The instructions should have been confined to the first count of the declaration, as the right of recovery in the other two counts of the declaration is based upon the willful violation of the statute by the defendant and not by reason of its negligence. But we do not think the giving of said instructions was reversible error. The court, at the instance of the defendant, in its fifth instruction informed the jury, before they considered the question of damages they should first determine whether the defendant was guilty of any of the negligent acts charged in the declaration, and if they found, from the evidence, the defendant was not guilty, there could be no recovery. The court, having been induced by the defendant to commit the same error in the defendant's instructions which the appellant complains the court committed in plaintiff's instructions, this court will not reverse for such error. (Consolidated Coal Co. of St. Louis v. Haenni, 146 Ill., 614.) While appellee was not bound to prove negligence in order to fix a liability upon the defendant under the counts of the declaration other than the first, the word "negligence" was used in each of the counts, and if the jury were misled by the instructions complained of, it seems apparent they were misled to the detriment of appellee rather than of appellant, as from said instructions the jury might have inferred that appellee could not recover under any of the counts of the declaration without proving negligence.

The jury were fully instructed as to the provisions of the statute against employing a boy under 14 years of age in a mine and without requiring him to produce an affidavit that he was 14 years of age, and as to what would constitute a willful violation of the statute, and we think it clear the jury understood, from the instructions, they could not find the defendant guilty under the second and last counts of the declaration, unless they found, from the evidence, the defendant had knowingly violated the statute by employing or permitting appellee to work in its mine when he was under 14 years of age and without his producing an affidavit that he was 14 years of age, and that he was injured while performing the manual service which he was employed to perform in the mine.

When the plaintiff was on the witness stand the attorney for the defendant asked him, "Are you willing, if your lawyers consent to it, to be examined by the physicians of the defendant company here, as to your injuries?" An objection was sustained to the question upon the ground it was not proper cross-examination, and the court remarked in ruling upon the question: "I do not suppose the boy could determine this; it ought not to be required of him; it ought to be the adults representing him to determine that." The defendant sought to base an instruction upon the question, the objection and the ruling of the court, to the effect that if the jury believed, from the evidence, that plaintiff, in their presence, in open court, on the trial of the case, with the advice of his counsel, had refused to allow himself to be examined by the physicians of the defendant for the purpose of ascertaining the character of his injuries, they might consider the fact of such refusal in weighing the testimony as to the character of his injuries. There was nothing before the court upon which to predicate the instruction, and it was properly refused.

It is also urged that the court erred in refusing to permit the defendant to prove that its manager ordered appellee out of the mine some months before the injury, when he was working in the mine with his stepfather, because of his being under age. We do not see that there was any error in this. The most the testimony would have tended to prove would have been that the boy was under 14 years of age, and that the manager of defendant, who afterwards put him to work as "trapper," knew the fact.

It is also urged that proof should have been submitted by the plaintiff that his stepfather did not produce to the defendant an affidavit that appellee was 14 years of age at the time he commenced work in the mine. The statute provides that the minor shall produce the affidavit. Appellee testified an affidavit was not produced by him. That testimony fully met the requirement of the statute, and plaintiff was not required to go further. If an affidavit was presented by some one other than plaintiff.



and the defendant was of the opinion such fact was material, it should have offered proof of the fact, and in case the same was rejected, preserved an exception if it desired a ruling of this court upon the materiality of such testimony. This it failed to do.

We find no reversible error in this record. The judgment of the Appellate Court will therefore be affirmed.

Judgment affirmed.

The Riverton Coal Company

v.

John E. Shepherd

and

Same v. Charles L. Shepherd.

Appeal from the Appellate Court for the Third District; heard in that court on appeal from the Circuit Court of Sangamon county, the Hon. R. B. Shirley, judge, presiding.

Mr. Justice Wilkin delivered the opinion of the court.

This appeal is from a judgment of the appellate court for the Third District affirming two judgments rendered in the circuit court of Sangamon county, one in favor of the appellee, John E. Shepherd, for \$5,000, and another in favor of his son, Charles L. Shepherd, for \$1,500, both against the appellant, the Riverton Coal company. The suits were for personal injuries growing out of the same accident and are similar in all respects. By agreement of parties they were tried in the circuit court as one case, and are submitted here, as they were in the appellate court, upon one set of abstracts, briefs and arguments.

There are four counts in the declaration. The first alleges that on March 18, 1902, the appellant negligently permitted gas to accumulate in the mine, and on account of the lack of air and presence of dust the explosion resulted. The second count alleges that the appellant wilfully failed and neglected to have the galleries, roadways and entries in said mine thoroughly sprinkled or cleaned, and that by reason of such failure the said galleries, entries and roadways were so dry that air became charged with dust, and this, together with the gasses accumulated, caused said explosion. The third count alleges five violations of the statute, as follows: First, that appellant did not always maintain sufficient currents of fresh air; second, that appellant did not force currents of fresh air into every working place, thus permitting the accumulation of standing smoke and impure air; third that appellant did not split or subdivide the main current so as to give a separate current of pure air to every 100 men; fourth, that appellant did not have a certain permanent door so hung as to close automatically, and that at the junction of a certain crosscut and the southeast entry west, the door was made of cloth, and the day of the accident, and sometime prior thereto, this cloth had been so torn that it did not perform its functions as a door; fifth, that appellant did not have an attendant at certain principal doorways, and that because of the condition of the air and gasses in said entry the explosion occurred. The fourth count alleges that appellant wilfully failed and neglected to thoroughly examine said mine as to air currents, gasses, etc. The plea was not guilty and the trial by jury. The circuit court refused proper requests to instruct the jury to find for the defendant as to each count of the declaration. That refusal, with other errors assigned, is urged as ground of reversal.

Briefly, the circumstances attending the injury were as follows: Plaintiffs below were mining coal in defendant's mine, working in a certain room, and on the 18th day of March, 1902, placed two shots, as it is termed, in that room—one west of the center and in the face of the room, and the other in the northwest corner. When they lighted the shots they ran out of the room to a point in the center of the entry about 18 feet west of the center of the mouth of the room. One of the shots, as it went off, threw out a large flame, which ran into the entry where they were and burned them. That shot also threw out a large amount of gas which was not consumed, and as it was followed almost immediately by the second shot, that gas, being hot, was

ignited and they were again burned by the flames, both being severely burned upon their hands and faces. The evidence tends to show that in the preparation of the shots, firing them and running into the entry they exercised reasonable care and skill.

It is first claimed that the trial court erred in permitting Otto Wenneborg to answer a hypothetical question put him. This question is quite lengthy and includes the elements upon which appellees base their case, and from these elements the witness was asked his opinion as to the cause of the explosion. It is claimed that this question assumes that there was coal dust circulating in the air, and does not contain all the elements necessary to a proper answer to the question. An examination of the record shows that the objection as made was not specific and did not point out the elements alleged to have been omitted. It was certainly not the duty of the trial court to go through the record to ascertain whether all of the elements were included in the question, and it was the duty of the appellant to call the specific attention of the court to the admission, and failing to do so it certainly has no cause of complaint in this court. An examination of the evidence, however, shows that the question as asked was in substantial accord with the evidence. If counsel for the defendant claimed that other material facts should have been included in the hypothesis, they had right, on cross-examination, to take the opinion of the witness upon their version of the testimony. On the objection made the court did not err in its ruling upon the question.

We are also of the opinion that the court properly refused to instruct the jury to find for the defendant, there being at least some competent evidence fairly tending to support the several counts of the plaintiff's declaration. Witnesses testified that the curtain across the crosscut, mentioned in the declaration, had been torn for three or four weeks and was in that condition on the date of the accident; that the mine manager and fire-boss had been notified of that fact, and also that the air was bad in the mine by reason of that condition, and were asked to remedy it; that the manager replied that he would do so as soon as he could get the hole in the curtain fixed, or words to that effect, and the fire-boss replied that he had done all he could, and that he had reported it. One of the witnesses asked the fire-boss if he had made this report in the book, to which he replied that he had not, but that he had reported it to the manager, Marsh. Several witnesses testified that the air was bad in the rooms, and that the lamps burned very low during the day and charred the wicks, which was an indication of the presence of gas, called "black damp." Others testified that every time the drivers came in with a in car the mules would kick up a dust and it would rise very thick; that the dust the back entry was at least one inch or more thick, and was composed of fire-clay and coal, which dust had accumulated from the tramping of the mules' feet and the travel in the entry. Witnesses also testified that they had notified the fire-boss and the mine manager of this condition and asked them to sprinkle the entry, and that it was not done because, as was claimed, the water tank was too high for the entry and they could not go down the entry with the tank. This testimony certainly tended to show that the mine was rendered unsafe through the negligence of defendant's employes, and while much of it was contradicted by witnesses for the defendant, it cannot be said that there is a want of evidence to support the plaintiffs' cause of action.

But it is said that notice to the mine manager and fire-boss does not constitute notice to the defendant, and that having employed a competent mine examiner, who was not shown to be guilty of wilfully violating the statute, it cannot be held liable, and that the appellees, who knew the condition, were guilty of such contributory negligence as should preclude their right of recovery. With this position we cannot agree. The State Mine Examiner testified that he visited the mine on Jan. 16, 1902, and then ordered the company's officials to remove the dust from the entry-ways, to sprinkle the roads and put up the canvas sheet. We are unable to see what further evidence of notice to the company could have been given than through this mine manager, and other officials. As to the plaintiffs below being themselves guilty of negligence, it need only be said that even if it were true that they did not exercise due care for their own safety, still, if the evidence fairly tends to prove, as we think it does, a willful violation of the statute, their right of action

would not be defeated. Even under the first count the rule is that "an employé does not assume all the risks incident to his employment, but only such as are usual, ordinary and remain so incident after the master has taken reasonable care to remove them, or if extraordinary, such as are so obvious and expose him to dangers so imminent that an ordinarily prudent and careful man would anticipate injury as so probable that in view of it he would not enter upon or remain in the employment." (Chicago & Alton Railroad Co. v. House, 173 Ill., 601.) There is no evidence in this record to show the danger which the plaintiffs encountered was so imminent that any reasonably prudent man would have abandoned the work, and, therefore, in no view of the case can it be said that they were guilty of such contributory negligence as will bar their right of recovery.

We think the appellate court properly disposed of the case, and its judgment will therefore be affirmed.

Affirmed.

The Spring Valley Coal Company,

v.

Alexander Patting.

Appeal from the Appellate Court for the First District—heard in that court on appeal from the Circuit Court of Cook county; the Hon. Elbridge Haney, Judge, presiding.

Mr. Justice Hand delivered the opinion of the Court:

This is an appeal from the judgment of the Appellate Court for the First District affirming a judgment for \$10,000 recovered by the appellee, against the appellant, in the Circuit Court of Cook county, for a personal injury sustained by the appellee while in the employ of the appellant as a coal miner. The declaration contained a number of counts, and in various forms alleged a willful violation of the Mines and Miners act by the appellant in failing to provide a sufficient brake with which to control the cage upon which the appellee was being lowered to the bottom of its shaft at the time of his injury, whereby said cage fell and he was injured; also in failing to furnish a sufficient light at the bottom of its shaft down which the appellee was being lowered at the time he was injured, to enable him to get off the cage with safety, whereby he was injured; also charged appellant with negligence, as at common law, in so carelessly, negligently and recklessly operating its machinery that it lost control of the cage upon which appellee was being lowered into its mine, by means whereof the cage, with appellee thereon, was precipitated to the bottom of its shaft, whereby he was injured.

The accident occurred on the morning of November 24, 1903, while appellee and a number of other coal miners were being lowered by appellant into its mine for the purpose of mining coal, upon a cage operated in a shaft 360 feet deep. There was no light at the bottom of the shaft, and the only light in the shaft was that furnished by the miners' lamps. The machinery for operating the brake, which controlled the speed of the cage failed to work and the cage dropped to the bottom of the shaft. The lamps of the miners became extinguished; appellee was thrown from the cage at the bottom of the shaft; the cage, which weighed, with the men thereon, something like 3,500 pounds, rebounded, and the appellee, while attempting in the darkness to save himself from injury, got one of his legs beneath the cage, and his leg was so crushed that it became necessary to amputate the same, and he was otherwise injured. It is undisputed that the failure of the brake which controlled the speed of the cage, to work, was due to the fact that the engineer did not expel from the engine which operated the brake, the cold water produced by the condensation of steam during the time the engine had been standing idle, as was his custom and duty to do before attempting to lower the cage.

A suit upon the same cause of action was, prior to the bringing of this suit, brought by the appellee against the appellant in the United States Circuit Court for the Northern district of Illinois, where he recovered a verdict and judgment for the sum of \$10,000, which judgment, on appeal to the United

States Circuit Court of Appeals, was reversed and a new trial granted. The case was redocketed in the United States Circuit Court, and when it was called for trial, the plaintiff not appearing, the court empaneled a jury to try the case, which jury, under the direction of the court, returned a verdict of not guilty, upon which verdict a judgment was rendered in favor of the defendant. Upon writ of error the United States Circuit Court of Appeals reversed said judgment, and in accordance with the mandate of that court the United States Circuit Court set aside the judgment rendered upon the verdict of not guilty and dismissed the suit for want of prosecution, and within a few days thereafter appellee began this suit. The defendant pleaded not guilty and the statute of limitations. The appellee filed a replication to the plea of the statute, setting up the pendency of the cause of action in the United States Circuit Court and the disposition thereof, to which replication the court overruled a demurrer, and no exception having been taken to the ruling of the court in that regard, the action of the court in overruling said demurrer is not raised in this court.

It is first contended as a ground for reversal in this court that the decision of the United States Circuit Court of Appeals constitutes an estoppel by verdict upon the question of the right of appellee to recover in this case against the appellant upon the ground of the negligence of the engineer of the appellant in failing to expel from the brake engine the cold water produced by the condensation of steam during the time the engine had been standing idle, as was his custom and duty to do before attempting to lower said cage into the mine, on the ground that the United States Circuit Court of Appeals, when the case was therein pending, held, as a matter of law, that the appellee and the engineer of the appellant were fellow servants, and there could be no recovery by appellee against appellant on the ground of the negligence of said engineer by reason of the fact that such relation existed between them at the time the appellee was injured. We do not agree with this contention, as the law is well settled that an estoppel by verdict can be based only upon a final judgment, and the judgment of the United States Circuit Court of Appeals reversing the judgment of the United States Circuit Court and granting a new trial, and the nonsuit which followed, was not a final judgment.

In the case of the City of Aurora v. West, 7 Wall. 82, Mr. Justice Clifford, speaking for the Court, said: "Unless a final judgment or decree is rendered in a suit, the proceedings in the same are never regarded as a bar to a subsequent action. Consequently, where the action was discontinued or the plaintiff became nonsuit, or where, from any other cause, except, perhaps, in the case of a retraxit, no judgment or decree was rendered in the case, the proceedings are not conclusive."

In *Bucher v. Cheshire Railroad Co.* 125 U. S. 555, an action at law was brought in the United States Circuit Court for the district of Massachusetts for damages for injuries sustained by the plaintiff through defendant's negligence while a passenger on its railway. Plaintiff had previously brought a similar action in a state court in Massachusetts, where he had recovered judgment, which was reversed, on appeal, by the Supreme Court of that state and the cause was remanded for a new trial, it being held in that court that at the time of his injury plaintiff was traveling in violation of the Sunday laws, which barred a recovery. Afterward the plaintiff became nonsuit and instituted the second action in the United States Circuit Court. On the trial in the latter court the defendant invoked the judgment of the Supreme Court of Massachusetts on the Sunday law as an estoppel. The United States Circuit Court held that the same question having been submitted to the jury in the trial in the state court, and having been passed upon by the Supreme Court of the state, it did not consider there was evidence sufficient to go to the jury upon that subject. The action of the court in that regard was assigned as error in the United States Supreme Court. That court, in disposing of such assignment, said: "Upon this point we are of the opinion that the court below ruled correctly. It is not a matter of estoppel which bound the parties in the court below, because there was no judgment entered in the case in which ruling of the state court was made, and we do not place the correctness of the determination of the circuit court in refusing to permit this ques-

tion to go to the jury upon the ground that it was a point decided between the parties and therefore *res judicata* as between them in the present action, but upon the ground that the Supreme Court of the state, in its decision, had given such a construction to the meaning of the word 'charity' and 'necessity' in the statute as to clearly show that the evidence offered upon that subject was not sufficient to prove that the plaintiff was traveling for either of those purposes."

In *Gardner v. Michigan Central Railroad Co.*, 150 U. S., 349, the plaintiff, an employé of the defendant, sued the defendant in an action at law for damages occasioned by the alleged negligence of the defendant. He had previously brought a similar action in the State court in Michigan, where he recovered judgment, which, on appeal, was reversed by the Supreme Court of Michigan and a new trial granted, on the grounds that upon the facts proved plaintiff was guilty of contributory negligence and that the negligence conducing to cause his injuries was that of a fellow servant. Upon the case being remanded the plaintiff became nonsuit and thereupon commenced a second action in the United States Circuit Court for the Western District of Michigan, and upon the trial defendant contended that the said judgment of the Supreme Court of Michigan precluded the plaintiff from maintaining that action, but the Supreme Court of the United States, on appeal to that court, overruled such contention. That court said: "Counsel for the plaintiff in error does not contend that the judgment of the Supreme Court of Michigan operated as a bar to this action, but he insists that that judgment precluded the plaintiff from successfully maintaining a new action against the defendant, upon evidence tending to prove only the same state of facts which the evidence before the Supreme Court of the State tended to prove. This assumes a final adjudication on matter of law binding between the parties, and, treating the judgment reversing and remanding the cause as final, applies it as an estoppel, notwithstanding the fact that a non suit was subsequently taken. We cannot concur in this view, and are of the opinion that the circuit court was not obliged to give any such effect to the proceedings in the State Court."

In *Illinois Central Railroad Co. v. Benz*, 108 Tenn., 670, (58 L. R. A. 690), a case very similar to the one at bar was presented to the court for decision. In that case, in an action for personal injuries, plaintiff recovered a judgment in the United States Circuit Court, which was reversed by the United States Circuit Court of Appeals and the case was remanded for a new trial on the ground that the injury occurred through the negligence of a fellow servant. Upon the case being redocketed in the United States Circuit Court, plaintiff was non-suit and thereafter started a new suit in a State Court of Tennessee. Defendant set up the reversal by the United States Circuit Court of Appeals as an estoppel in bar of the action in the State Court. The Supreme Court of Tennessee, upon review of the foregoing cases, held that the decision of the United States Circuit Court of Appeals did not operate as an estoppel in the State Court.

In *Holland v. Hatch*, 15 Ohio St., 464, the action was at a law upon a bill of exchange. A previous action had been brought upon the same bill in a State Court in Indiana, where the plaintiff had recovered in the trial court, but on appeal the Supreme Court of Indiana reversed and remanded the case for further proceedings, whereupon the plaintiff became nonsuit and thereupon brought second suit in Ohio, where the defendant invoked the said judgment of the Supreme Court of Indiana as an estoppel. On appeal to the Supreme Court of Ohio it is said (p. 468:) "It seems to us, that when the judgment of the Indiana Circuit Court was reversed in the Supreme Court of that State and the cause remanded again to the Circuit Court for further proceedings, the case stood in the Circuit Court as it did before the trial or judgment. The judgment of the Circuit Court had become a nullity by the reversal. The judgment of the Supreme Court was the only thing left to estop the parties, and that simply estops them from denying that the judgment below was reversed and that the cause was remanded. And the final judgment below seems to estop them from denying that the case ended in a nonsuit, and not in a judgment upon the merits."

Great reliance is placed by the appellant upon the case of *Chicago Theological Seminary v. People*, 189 Ill. 439, as an authority sustaining its position that the decision of the United States Circuit Court of Appeals should be held to work an estoppel upon the appellee in this case. That decision was based upon the view that the judgment in the case of *People v. Theological Seminary*, 174 Ill. 177, relied upon as an estoppel, was a final judgment, and it was so treated by the court. The court said (p. 448): "The judgment rendered by this court in the case last referred to was not merely a judgment reversing and remanding the cause for further proceedings, but it was a judgment which reversed the judgment of the county court and remanded the cause 'for further proceedings in accordance with the views herein expressed,'—that is, in accordance with the views expressed in the opinion in that case. \* \* \* A judgment rendered by this court reversing and remanding a cause for further proceedings in accordance with the views expressed in the opinion rendered is a final judgment, so far as the questions decided in the opinion are concerned." The decision, therefore, in *Theological Seminary v. People*, supra, is not an authority sustaining the position that the decision of an appellate court reversing a case and remanding the same for a new trial, in which case the plaintiff afterwards submits to an involuntary nonsuit, can be pleaded in another suit commenced upon the same cause of action, as an estoppel, and is not in conflict with the authorities above referred to.

When a cause is reversed by an appellate tribunal and remanded for a new trial the principles announced by the appellate tribunal in its opinion, on a retrial of the case in the court, to which the case is remanded, must control, but where, upon remandment, the cause is dismissed or the plaintiff suffers a nonsuit and a new action is brought upon the cause of action in another forum, the principles of law announced by said appellate tribunal will not necessarily control in the decision of the case in the new forum. In *Gardner v. Michigan Central Railroad Co.* supra, it was held that the responsibility of the appellee in that case to the appellant, as an employé, was involved, which responsibility was controlled by matters of general law, and that in applying the law to the case then before the court it was the duty of the court to apply the law of the forum wherein the case was then pending, and it was not the duty of the court to apply the law as announced by the Supreme Court of Michigan. The same holding was made in *Illinois Central Railroad Co. v. Benz*, supra. It was not, therefore, the duty of the State court to apply the rule upon the question of fellow-servants announced by the United States Circuit Court of Appeals in this case, as the rule as to what constitutes the relation of fellow servants between servants of a common master is a matter controlled by general law, and the law upon this subject is different in the Federal courts from what it is in this State as administered by the courts of this State.

It is next contended that the trial court erred in not submitting to the jury the question whether or not the relation of fellow-servants existed between the appellee and the engineer of the appellant at the time of the injury. The engine room in which the engine which operated the brake which controlled the speed of the cage upon which the appellee was being lowered into the mine was located, was sixty feet from the mouth of the shaft. The appellee was not acquainted with the engineer, and was forbidden, as were all other miners, access to the engine room. The duties of the engineer were to operate, by means of the engine under his control, the moving of the cage up and down the shaft upon which the men were carried to and from their work in the mine, and upon which empty cars were sent into the mine and loaded cars drawn up to the surface of the ground, and to control the brake which regulated the speed of the cage as it ascended or descended in the shaft. His action in raising and lowering the cage was controlled by signals given him by a man who was stationed at the top and another who was stationed at the bottom of the shaft, while the duty of the appellee was to mine coal in the mine. The duties of the two men never brought them together in the discharge of their respective duties. So far as appears they never met. Indeed, their duties were as disconnected as if they were employed by different masters and performed their labors in places having no connection whatever with each other. The respective duties of the appellee and said engineer did not bring them into association with each other and did not in any man-

ner require them to act or cooperate with each other. In view of their duties and relations to each other, within the rule announced in this State, the facts being undisputed, we think the Court properly refused to submit to the jury the question whether or not the relation of fellow-servants existed between them. While it is true, generally, that the question whether the servants of a common master are fellow-servants is a question of fact for the jury, (*Norton Bros. v. Nadebok*, 190 Ill. 595,) when the facts are conceded or there is no dispute with reference thereto, and all reasonable minds will agree, from the evidence and the legitimate conclusions to be drawn therefrom, that the relation of fellow-servants does or does not exist, then the question becomes one of law, and not of fact. *Chicago & Eastern Illinois R. R. Co. v. Driscoll*, 176 Ill. 330; *Norton Bros. v. Nadebok*, *supra*.

Lastly the appellant contends that the Court improperly refused to instruct the jury that if the appellee knew there was no light at the bottom of the mine and with such knowledge he voluntarily descended into the mine, he could not recover by reason of the absence of such light on the morning of the injury. This Court has held that contributory negligence is no defense to an action against a mine owner if an injury results to a miner by reason of a willful violation of the Mines and Miners act, (*Western Anthracite Coal and Coke Co. v. Beaver*, 192 Ill. 333,) and we think the same reasoning applies to the doctrine of assumed risk. The statute expressly requires the mine owner to furnish a sufficient light at the top and bottom of the shaft to insure, as far as possible, the safety of persons getting on and off the cage. To excuse the mine owner from a compliance with said statute upon proof of the fact that the miner knew the mine owner was violating the statute would be to repeal the statute. It is clear, however, the refusal of the instruction did not prejudice the appellant, as it appears the appellee was injured by the negligence of the engineer in charge of the engine which operated the brake that controlled the speed of the car, and unless the engineer was a fellow-servant of the appellee, which we have held he was not, appellant is liable and the judgment should be affirmed.

The judgment of the Appellate Court will be affirmed.

Judgment affirmed.

#### The Consolidated Coal Company of St. Louis

v.

Charles P. Fleischbein, Admr.

Appeal from the Appellate Court for the Fourth District; heard in that court on appeal from the Circuit Court of St. Clair county, the Hon. M. W. Schaeffer, judge, presiding.

Mr. Justice Magruder delivered the opinion of the court.

The questions in this case are nearly all questions of fact, and are settled by the judgment of the circuit court, and the judgment of the appellate court affirming the judgment of the circuit court. No instructions upon the trial below, were asked by the plaintiff, the present appellee. Upon the trial, the court gave 21 instructions on behalf of the appellant, and at its request. The court refused to give four instructions, numbered from 23 to 26, inclusive, asked by the appellant. No complaint is made of the refusal of the court to give these four instructions. Very little objection is made as to the admission or rejection of evidence by the trial court.

The main error complained of is, that the trial court refused to instruct the jury to find for the defendant. This raises the question whether there was evidence, tending to sustain the cause of action, as set up in the declaration, and if there was such evidence, tending to sustain the cause of action, as set up in the declaration, and if there was such evidence, the court did not err in refusing to instruct the jury to find the defendant not guilty.

The main contention on the part of counsel for appellant is that Bowen, deceased, and Zink, the mine manager, were fellow-servants at the time Bowen was injured, and that they were both directly engaged in the same line of employment as drivers, and that Bowen was not injured, as the result of any negligent act of Zink done as a vice-principal of the company.

It was the duty of Bowen to haul the empty cars or boxes from the bottom of the shaft of the mine to a certain "parting" or switch in the main entry, and to haul the loaded boxes or cars from the parting or switch to the bottom of the shaft to be hoisted to the surface. Leading from this parting in the direction of the shaft was a very steep decline. In order to haul the loaded boxes down this decline in safety, it was necessary use "sprags," which were pieces of wood about two feet long placed in the wheels to control the speed of the load. They would be placed in the wheels in this parting, and taken out between 50 and 75 feet from the point of the parting at a place designated by the witnesses as a "swag," which was in reality a depression in the track. There was also a sharp curve between this swag and the shaft, and it is admitted that a driver could easily tell whether a train of four cars, drawn by a mule, was all following. The evidence tends to show that this entry was very dusty, and that the air, traveling from the bottom of the shaft towards the parting or switch, carried the dust in the face of a driver going towards the shaft. The evidence tends to show that the dusty condition of the entry was well known to the pit-boss, Peter Zink, and that he had been repeatedly notified of it by the miners. One witness says that there were "clouds of dust," and another, who was the track layer of the mine, testified that "it was so dusty you could hardly see anything." The evidence also tends to show that, where four of these loaded boxes or cars were drawn by a mule down the decline towards the shaft, the boxes were liable to become uncoupled and to be left in the entry. It appears, however, that where a train of four box cars is in motion, one of the cars cannot become uncoupled without a jar or jam, so that the driver, if he loses a box, will know of it at the time when it happens.

The injury occurred on April 21, 1902, about 4:00 o'clock in the afternoon. At that time Zink, the pit-boss, went to the deceased, Bowen, at the parting or switch, and complained that the coal was not coming out fast enough. The pit-boss then took a mule, which was said to have been a "spoiled" mule—that is to say, a mule which had been whipped or otherwise maltreated in such a way that it would not haul as large a number of loaded cars as it was able to do—and with this mule, hitched to four boxes or cars, started to haul them from the parting or switch to the bottom where the shaft was. When Zink, the pit-boss, reached the swag, he pulled his sprags, and then directed Bowen to start with his load. The evidence tends to show that the pit-boss called to Bowen, and said: "All right, come ahead." The pit-boss testifies that he gave no such direction to Bowen, but was merely talking to the mule, but his evidence on this subject is somewhat indefinite, as he states that he does not know exactly whether he made use of these words, or not. There is other testimony, however, tending to show that they were used, and that they were intended for Bowen.

As has been said, it sometimes happened that one of the cars, drawn by the mule towards the shaft, would become uncoupled, and the evidence is quite clear that in this case, when Zink went with his load towards the shaft, one of his cars did not become uncoupled, and was upon the track in the main entry. Zink admits in his testimony that he lost one of his cars, but did not know where or at what point it became uncoupled. When Zink uttered the words: "All right, come ahead," Bowen started down the hill with his load, driving the mule which hauled the loaded cars. We discovered no evidence in the record tending to show that he was not in the exercise of due care for his own safety. It appears that his load was carefully "spragged," that is, blocked, so as not to proceed with too great a speed. When near the swag or depression in the track or entry, Bowen came in contact with, and struck, the box or car of coal which Zink, the pit-boss, had left upon the track in the entry. The evidence tends to show that the mule which was in front of Bowen, turned to the side, and escaped injury, while Bowen was crushed between the forward car of the train, which his mule was hauling, and the box-car, which had been left upon the track by Zink, the pit-boss. His injuries were so serious, that he died in a few days after the accident. The evidence tends to show that, after passing beyond the swag or low point, there is a down grade for a considerable distance beyond the sharp curve, and the mo-



mentum gained in going down the incline was so great, that the impact of the collision caused the car, left on the track by Zink, to move forward and around the curve.

The negligence charged is, that the pit-boss left a loaded coal box in a dark, dusty entry on a down-grade, and then ordered Bowen, who did not know that such loaded coal box had been left upon the track in the entry, to proceed down the hill with his loaded cars. It is not denied that Zink was the pit-boss, and a vice principal of the company. Such a boss in a coal mine is the company, so far as employes are concerned. In this case Zink testifies as follows: "I was pit-boss at Richland mine when Bowen was hurt. I lost a car on the trip preceding Bowen in going out. I can't say where I lost that car. \* \* \* I had full supervision of the mine and of the men, and the power to discharge and employ the men, and the power to order and direct Bowen, and I was the pit-boss and acting as such that day, and had charge of Bowen and the other men, and could give them orders."

It is not denied that the position of Zink, as pit-boss, was such as he states it to be in his testimony, and it is conceded by counsel for appellant that, if the negligent act, of which he was guilty, was performed, while he was acting as the vice principal of the company, the company would be liable.

But the contention of appellant is that, when Zink, the pit-boss, undertook to drive a mule, hauling four loaded cars from the parting or switch to the bottom of the shaft, he abdicated his position of vice principal, and was engaged as a driver, just as Bowen was engaged, and, therefore, that he and Bowen were fellow-servants. If the negligent act of Zink, which caused the accident, was the act of a fellow-servant of Bowen, then the company would not be liable. The fact, that Zink did not abdicate his position as superintendent, is apparent from the further fact, that he ordered Bowen to come ahead with his load, and thereby still assumed to control the action of Bowen.

In *Chicago & Alton Railroad Co. v. May*, 108 Ill., 288, we said (p. 298): "The mere fact that one of a number of servants, who are in the habit of working together in the same line of employment for a common master, has power to control and direct the actions of the others with respect to such employment, will not of itself render the master liable for the negligence of the governing servant, resulting in an injury to one of the others, without regard to other circumstances. On the other hand, the mere fact that the servant exercising such authority, sometimes, or generally, labors with the others as a common hand, will not of itself exonerate the master from liability for the former's negligence in the exercise of his authority over the others. Every case, in this respect, must depend upon its own circumstances."

The first count of the declaration avers that, "while in the performance of his said work in hauling a load of coal cars from said parting to the bottom of the shaft, and while acting under the orders of said mine manager, and in the exercise of reasonable and ordinary care and caution for his own safety, said Robert Bowen ran against and collided with said loaded coal cars, carelessly and negligently left standing in said entry at said place by said mine manager of defendant, and which box could not be seen by said Robert Bowen on account of the dust in said entry."

In *Norton Bros. v. Nadebok*, 190 Ill., 595, we said (p. 600): "When the appellee was ordered by his superior servant to put his hand into the machine and take out the 'catch,' in the absence of any warning or notice he had the right to assume that his superior, who gave the order, would not by his own negligence make the act, which he had commanded him to do, and which he was bound to obey, unsafe." So, in the case at bar, when Bowen was ordered by his superior to "come ahead," in the absence of any warning or notice he had the right to assume that his superior, who gave the order, would not by his own negligence make the act, which he had commanded him to do, and which he was bound to obey, unsafe."

The commands, which a vice-principal, who is a direct representative of the company, gives within the scope of his authority, are the commands of the company, and, if such commands are not unreasonable, those under his charge are bound to obey at the peril of losing their situations. Hence, the company

will be held responsible for the consequences. (Illinois Steel Co. v. Schymanski, 162 Ill., 447.) The mere fact that Bown and Zink were working together in hauling coal from the parting to the bottom of the shaft, would not necessarily relieve appellant from liability. In *Pittsburg Bridge Co. v. Walker*, 170 Ill., 550, this court, quoting from *Chicago & Alton Railroad Co. v. May*, *supra*, said (p. 554): "The mere fact, that the servant, exercising such authority, sometimes, or generally, labors with the others as a common hand, will not of itself exonerate the master from liability for the former's negligence in the exercise of his authority over the others. \* \* \* When the negligent act complained of arises out of, and is the direct result of, the exercise of the authority conferred upon him by the master over his co-laborers, the master will be liable. In such case, he is not the fellow servant of those under his charge with respect to the exercise of such power, for no one but himself in the case supposed, is clothed with authority to command the others."

In *Consolidated Coal Co. v. Gruber*, 188 Ill., 584, we said (p. 588): "If the action was taken by him in the discharge of his duties as vice-principal, his position was one of superiority, and not that of a fellow-laborer. The fact, that, in the discharge of his duties as assistant mine manager, he engaged temporarily in work, usually performed by Nagle, would not justify the declaration, as matter of law, that he became a fellow-servant of the appellee."

In the case at bar, the pit-boss was displeased that the coal was not taken out, or taken up fast enough, and proceeded himself to take a load of coal down to the shaft quickly and rapidly, and ordered Bowen, whom he preceded, to come along after him as soon as he reached the "swag." His acts, as well as his words, were a part of his efforts to hurry along the work, and increase the amount of coal taken out. He was acting in all respects, not merely as fellow-laborer or fellow-servant, but as a superintendent, directing the conduct of Bowen, so as to make the efforts of the latter speedier and more efficient. We cannot see that there was anything in the facts of the case, which indicated any abdication of his authority by Zink, so as to make him a mere fellow-servant of Bowen.

But, the question whether the relation of fellow-servant exists in a given case is one for the jury, unless the facts, admitted or proved beyond dispute, show the existence of the relation within the definition of fellow-servant, as given by the court, in which case it becomes a question of law. (*Hartley v. Chicago & Alton Railroad Co.*, 197 Ill. 440.) In other words, where the facts are conceded, or where there is no dispute whatever as to the facts, and they show beyond question that the relation of fellow-servant exists, then the question may become one of law. But here the facts are not conceded, but are sharply contested.

The question, whether or not Zink and Bowen were fellow-servants, was submitted to the jury under the instructions of the court, asked by the appellant itself, and that question is finally settled by the judgments of the lower courts. (*Slack v. Harris*, 200 Ill. 96.) In instruction seven, given for the appellant, the court told the jury that "it is necessary for the plaintiff to prove to you that the mine manager at the time the deceased was injured was not a fellow-servant of the deceased."

In the tenth instruction, given for the appellant, the jury were instructed as follows: "And it is not enough to prove that the car was left in the entry by the mine manager, but, before the plaintiff is entitled to recover under this count, he must prove that the car was negligently left by said mine manager; that said mine manager was not, at that time, a fellow-servant within the meaning of the instructions given you, and that the deceased was using due care for his safety to prevent this collision; and, if he has failed to prove all and each of these things, he cannot recover." By this instruction and others, asked by the appellant, the question, whether or not the pit-boss and the deceased were fellow-servants, was left to the jury to be determined by them as a question of fact. They found against the appellant upon this question of fact under the instructions given them, and so far as we are concerned, the question is settled.

We are, therefore, of the opinion that the trial court committed no error in refusing to instruct the jury to find the defendant not guilty, inasmuch as the contention of the appellant's counsel, that such instruction should have

been given, is based upon the further contention that the relation of fellow-servants existed between the mine-boss and the deceased, as a matter of law. Having been a question of fact and not a question of law it was properly submitted to the jury.

Counsel for appellant discuss in their brief certain questions of fact, such as whether there was a collision between Bowen's train and the car left upon the track by the pit-boss and whether the deceased was guilty of such contributory negligence as should prevent a recovery, and whether or not the entry was dusty, and whether or not there was room at the side of the car at the place where deceased was hurt to have enabled him to escape injury if there was a car upon the track. All these were questions of fact and were properly submitted to the jury under the instructions and are settled by the judgments of the lower courts.

We see no reason for reversing the judgment of the Appellate Court and accordingly that judgment is affirmed.

Judgment affirmed.

## MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

This list includes all the mine managers to whom certificates have been issued prior to Jan. 1, 1905.

Names which are printed in *italics* are those who hold both certificates and subsequent certificates of competency acquired through examination.

Names which are followed by the abbreviation "ex" are those who exchanged certificates of service for those of competency, without examination under the provisions of the amendment of 1895. Names followed by "d" are deceased.

Postoffice addresses here given, and in all the lists following, are those at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
<i>Charles T.</i>	Rosboro	Barratt, John C.	Duquoin
<i>M.</i>	Wanlock	<i>Barron, James, ex.</i>	Cantrall
<i>Samuel.</i>	Taylorville	<i>Barrowman, James.</i>	Braidwood
<i>Samuel, Jr.</i>	Taylorville	<i>Bartlett, Thomas, ex.</i>	Cuba
<i>Thomas.</i>	Taylorville	<i>Bashong, Andrew.</i>	Danville
<i>J. mes.</i>	Streator	<i>Barwell, John.</i>	Marietta
<i>J. id T.</i>	Collinsville	<i>Bates, W. H.</i>	Winchester
<i>W. C.</i>	LaSalle	<i>Bates, R. D.</i>	Winchester
<i>James.</i>	Elmwood	<i>Baumer, Fred.</i>	Marquette
<i>James C.</i>	Ladd	<i>Bauer, Valentine.</i>	Clyde
<i>John M.</i>	Streator	<i>Baxter, William.</i>	Ladd
<i>W. C.</i>	Streator	<i>Heaghan, Peter.</i>	Cantrall
<i>John M.</i>	Belleville	<i>Beattie, Richard.</i>	Murphysboro
<i>W. C.</i>	Belleville	<i>Beattie, John.</i>	Danville
<i>John E.</i>	Belleville	<i>Beatty, James H.</i>	Mascoutah
<i>William R.</i>	Springfield	<i>Beatty, Nephi.</i>	Mascoutah
<i>John E.</i>	Coal City	<i>Becker, Henry.</i>	Peoria
<i>Joseph.</i>	Streator	<i>Becker, Peter.</i>	Petersburg
<i>Edward.</i>	Pekin	<i>Becker, F. W.</i>	Pinckneyville
<i>J. G.</i>	Murphysboro	<i>Becker, Charles.</i>	Staunton
<i>William.</i>	Braceville	<i>Beese, John.</i>	Birkner
<i>William.</i>	Spring Valley	<i>Beharrelle, Fred.</i>	Orchard Mines
<i>Thomas J.</i>	Marion	<i>Bell, Richard.</i>	Gillespie
<i>William C.</i>	Barclay	<i>Bell, William.</i>	Streator
<i>John.</i>	Girard	<i>Belger, John.</i>	Nilwood
<i>ber, ex.</i>	Fairmount	<i>Beltz, Andrew.</i>	Harrisburg
<i>David.</i>	Freeburg	<i>Bengston, John A., ex.</i>	Galva
<i>Edward.</i>	Edwardsville	<i>Bennett, James.</i>	Odin
<i>Petersburg.</i>	Petersburg	<i>Bennett, John.</i>	Centralia
		<i>Berkstresser, W. A.</i>	Duquoin
		<i>Berry, Jesslar.</i>	Greenview
<i>Stav.</i>	Streator	<i>Betts, Joseph E.</i>	Belleville
<i>mas.</i>	Mapleton	<i>Betz, Charles C.</i>	Duquoin
<i>William.</i>	Athens	<i>Bevard, John J.</i>	Kinmundy
<i>Joseph.</i>	Duquoin	<i>Bevard, F. C.</i>	Cartersville
<i>Ward.</i>	Bartonville	<i>Beveridge, David.</i>	Sorento
<i>Henry.</i>	Coffeen	<i>Beggs, Samuel, ex.</i>	Clark City
<i>W.</i>	Johnson City	<i>Biebel, Henry, ex.</i>	Rentschler
<i>es.</i>	Braidwood	<i>Biggins, James.</i>	Sorento
<i>er.</i>	Bryant	<i>Bingham, Robert.</i>	O'Fallon

## Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Bird, George W	Coffeen	Clark, Edward	Decatur
Birtin, Henry	Pana	Clark, Quinton	Braidwood
Birtley, William P	Springfield	Clark, Thomas	Decatur
Blair, Gus	Murphysboro	Clark, John	Decatur
Blair, Herbert	Divernon	Clayton, Frank	Troy
Blackenship, Wm. F	East Peoria	Clelland, Robert	Braidwood
Blenkinsopp, Thos. N	Cable	Clifford, Michael J.	Kewanee
Boettcher, F. J.	Athens	Coar, Firman	Worden
Boston, G. W	Murphysboro	Collier, Frank J.	Bartonville
Boston, James	Duquoin	Collins, Richard J., ex	O'Fallon
Bottomly, Edward	Oglesby	Combs, James W	Kewanee
Bottomly, John	Oglesby	Comford, L.	Cantrall
Bowers, Robert	Wenona	Condis, Malcomb	Spring Valley
Bowie, James	Braidwood	Conity, Patrick	Duquoin
Bowie, George	Braidwood	Cooper, Charles	Nilwood
Hoyer, J. A.	Fairmount	Cook, Robinson	Riverton
Bracken, James A	Greenview	Cook, William	Peoria
Bradenberger, F.	Belleville	Condon, Charles H	Hanna City
Brennan, John I.	Virden	Connors, William	Toluca
Brennan, Patrick	Toluca	Connell, Nichol E.	Peoria
Bressmen, William	Springfield	Conrad, William	Springfield
Brockhouse, Samuel	Caseyville	Costello, Henry	Pana
Brigham, William	Marissa	Castor, George	Grape Creek
Brooks, Peter	Taylorville	Corrigan, James	Marseilles
Brown, John	Glen Carbon	Courtney, James D	Westville
Brown, Thos. Manhall	Pinckneyville	Cowell, William	Assumption
Brown, William J	Coal City	Cox, Eugene	Centralia
Brown, William F	Pontiac	Craine, John E.	Murphysboro
Brown, James B.	Murphysboro	Craine, B. S.	Murphysboro
Brown, F. M.	Farmington	Crampton, Edward	Murphysboro
Browning, J. M.	Duquoin	Crauch, J. E.	Virden
Brueckner, Emil	Staunton	Crankshaw, Thomas	Decatur
Brueggeman, George	Belleville	Crankshaw, William	Decatur
Bulmer, John, ex	St. John	Chrichton, Dawson	Taylorville
Bulmer, Benjamin	Muddy Valley	Crighton, Robert	Chenoa
Bundy, John	Streator	Crowder, Richard A.	Moccasin
Burdett, J. P.	Colchester	Cruikshanks, John	Farmington
Butzke, Frank	Springfield	Cruikshanks, Walter E.	East Peoria
Burke, George, ex	Peru	Cruikshanks, William	Middle Grove
Burkhardt, John B.	Mt. Olive	Cryer, James T.	Spring Valley
		Cumming, Ambrose B.	Spartan
		Cumming, James F.	Spartan
		Cumming, John P.	Braceville
		Cumming, Thomas S.	Gardner
		Cumming, D. H.	Gardner
		Cunningham, Thomas.	Girard
		Cunningham, Cormick	Springfield
		Currie, Adam	LaSalle
Callaar, Isaac	Pottstown		
Cameron, David J	Pana	Daenzer, Anton	Belleville
Cameron, D. S., ex	Sorento	Dale, Henry	Murphysboro
Cambell, William	Sandoval	Dale, John	Fredonia
Campbell, Frank J.	Athens	Daniels, James	Belleville
Campbell, Thos. N. (d.)	Pinckneyville	Daniels, Samuel	Belleville
Campbell, H. J.	Assumption	Daniels, Alexander	Henry
Campbell, R. W.	Decatur	Danney, William	Lincoln
Canfield, R. A.	Madisonville, Ky.	Davis, Calib	Collinsville
Cardwell, Elliott	O'Fallon	Davis, J. H.	Cuba
Carroll, A. W.	Gillespie	Davis, Thomas	Dunfermline
Carson, Andrew	Colfax	Davis, P. J.	Percy
Carson, J. H.	O'Fallon	Davis, William	Litchfield
Carson, Chas. W.	Wolcott	Davis, William H.	Streator
Carter, Charles	Birkner	Davidson, M.	Duquoin
Carter, George	Birkner	Davison, James	Sparta
Cartledge, Oscar	Gillespie	Davenport, John	Harrisburg
Carroll, John, (d.)	O'Fallon	Dawkins, William E.	Belleville
Caerylon, J.	Oglesby	Dawson, Daniel	Campbell Hill
Casey, James F.	Selytown	Dawson, Richard	Athens
Catheart, Matthew, ex	Tilden	Deans, Henry	Percy
Center, George H.	Hallidayboro	Deaton, Abraham L.	Middletown
Chalderton, John	Lenz Station	Deeney, George H.	Farmington
Chambers, William	Spaulding	Denny, John L.	Springfield
Charlton, George R.	Greenview	Denny, Lawrence	Springfield
Cherry, John T.	Seatonville	Devlin, Henry	Toluca
Cherry, James	Seatonville	Devlin, Thomas H.	Spring Valley
Cherry, W. S.	Streator	Diamond, Peter	Duquoin
Chere, George	Pleasant Plains		
Checkin, David	Reed City		
Chivers, Joseph	Braceville		
Chonolly, Terrance J	Assumption		
Christie, David	Murphysboro		
Church, Henry M	Marissa		
Clark, Martin	Decatur		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Robert.....	Duquoin	<i>Forsythe, Peter</i> .....	Centralia.....
nson, James E.....	Belleville.....	Forsythe, Robert.....	Murphysboro.....
nson, J. L.....	Danville.....	Foster, William.....	Lincoln.....
nson, Wm. T.....	Athens.....	Foster, James.....	Marion.....
, William, (d).....	Cable.....	Fohl, Bernard, ex.....	Belleville.....
, H. N.....	St. David.....	Francis, T. L.....	Braidwood.....
oe, James.....	Cartersville.....	Frazee, William H.....	Danville.....
dson, William.....	Kangley.....	<i>Franken, Benard</i> .....	Lincoln.....
dson, James W.....	Peoria.....	Frew, Archibald.....	Moweaqua.....
dson, John A.....	Himrod.....	Freer, James.....	Peoria.....
ly, James.....	Cartersville.....	Friska, Jan.....	Edwardsville.....
y, Harry.....	Springfield.....	Fritz, William, ex.....	Breese.....
er, P. J.....	Glenburn.....		
elly, P. H.....	Chicago.....	Gaffigan, Michael.....	Petersburg.....
elly, Henry.....	Braidwood.....	Gaffigan, Patrick J.....	Springfield.....
hty, James.....	Danville.....	Gailbraith, George.....	Tamaroa.....
herty, Daniel.....	Virginia.....	Garrity, John.....	Riverton.....
ll, Thomas.....	Muddey Valley.....	Gaul, Henry J.....	Ridge Prairie.....
ing, Timothy.....	Briar Bluff.....	Gavin, Barney.....	Springfield.....
, George.....	Streator.....	Geisler, Ernest.....	Golden Eagle.....
, J.....	Grape Creek.....	Gell, Philip.....	Gilchrist.....
y, John.....	Pana.....	Gibson, Michael.....	Spring Valley.....
, John.....	Kimmunity.....	<i>Gilbert, Edward</i> .....	Niantic.....
er, J. W.....	Belleville.....	Gile, William.....	Gillespie.....
in, Charles.....	Streator.....	Gilchrist, John W.....	Gilchrist.....
am, John F.....	Springfield.....	Glass, William H.....	Pana.....
op, John.....	Odin.....	Gluck, Wes. C.....	Spring Valley.....
n, Michael.....	Sunfield.....	Goalby, John F.....	Gillespie.....
		Goddard, Benjamin B.....	Duquoin.....
William.....	Braidwood.....	Goddard, William.....	Duquoin.....
, A. C.....	Zeigler.....	<i>Golden, William</i> .....	Cuba.....
s, John.....	Salem.....	<i>Golden, George</i> .....	Springfield.....
rd, S. E.....	Centralia.....	Golden, William D.....	Springfield.....
rd, Thomas.....	Springfield.....	Gorsuch, R. H.....	Springfield.....
nds, Morgan.....	Mt. Olive.....	Goodall, George.....	Assumption.....
, Frank A.....	Wesley.....	Gordon, Ephriam G.....	Wanlock.....
William.....	Edwardsville.....	Grabuck, Emil T.....	Staunton.....
y, Charles.....	Breese.....	Grabuck, R. H.....	Staunton.....
y, Joseph.....	Belleville.....	Graham, Hiram.....	Virden.....
sh, Thomas.....	Streator.....	Graham, John W.....	Dunfermline.....
, William.....	Belleville.....	Graham, Louis A.....	Jacksonville.....
, George W.....	Soperville.....	Graham, William.....	Virden.....
, George.....	Lincoln.....	Graham, David L.....	Springfield.....
, Harry M.....	Harrisburg.....	Graham, John.....	Marion.....
, John Nine, ex.....	LaSalle.....	Granell, Ira.....	Herrin.....
, John O., ex.....	O'Fallon.....	Grant, Peter, Jr.....	Peoria.....
, John.....	Bissel.....	Gratz, Gottlieb.....	Hornsby.....
, Albert E.....	Streator.....	Granlick, Jul. M.....	Belleville.....
, William.....	Norris.....	Gray, Thomas R.....	Springfield.....
, William H.....	Harrisburg.....	Gray, Peter.....	Pana.....
, John O., Jr.....	Caseyville.....	Green, Arthur.....	Braceville.....
		Green, W. H.....	Belleville.....
, Michael.....	Spring Valley.....	Green, Joseph, ex.....	Marissa.....
, Patrick T.....	Decatur.....	Green, John W.....	Springfield.....
irn, Thomas.....	Streator.....	Green, John.....	Belleville.....
, James.....	Gilchrist.....	<i>Green, Robert</i> .....	Springfield.....
ti, John B.....	Glen Carbon.....	Greenwood, John R.....	Edinburg.....
worth, Lawrence, ex.....	Barclay.....	<i>Greedwood, Robert</i> .....	Duquoin.....
worth, Thomas J.....	Spaulding.....	Greive, Peter.....	Collinsville.....
r, John.....	Danville.....	Greive, Peter, Jr.....	Collinsville.....
vs, Edward.....	Streator.....	Griffin, John.....	Cantrall.....
son, John.....	Reed City.....	Grinrod, William E.....	Belleville.....
son, Walter.....	Braidwood.....	Groom, John.....	Belleville.....
son, William.....	Duquoin.....	Grosspich, August.....	Belleville.....
, A. W.....	Worden.....	Guest, Joseph, ex.....	Belleville.....
ck, M. M.....	Pana.....	Guest, John.....	Belleville.....
, Jonah.....	Duquoin.....	Guiney, James T.....	Braidwood.....
ng, James.....	Decatur.....		
ng, Jacob.....	Kewanee.....	Haddick, John, Jr.....	Cable.....
er, John.....	LaSalle.....	Haddick, William, ex.....	Sherrard.....
er, John J.....	Collinsville.....	Haddow, Thomas.....	Pana.....
er, T. C.....	Collinsville.....	Hagerton, Joseph.....	St. John.....
er, William.....	Collinsville.....	Halle, George.....	Ladd.....
George, ex.....	LaSalle.....	Hall, John.....	Sherrard.....
W. E.....	Mapleton.....	Hallemeuer, Julius, ex.....	Golden Eagle.....

## Certificate of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Hall, Matthew	Braceville	Hummert, Henry	Breese
Hainsel, Daniel	Lenzburg	Humphreys, Edward	Murphysboro
Halbert, J. A.	Westville	Hunt, Albert J.	Edwards
Halbert, W. S.	Westville	Hutton, James, ex	Tallula
Hamilton, Thomas	Nashville		
Haudwright, James	Virden		
Hanley, John H.	Springfield	Iberson, James	Athens
Hannah, Thomas	Iles Junction	Irwin, James M.	Pontiac
Hardin, Joseph H.	Vandercook	Issinghaus, William	Lebanon
Harding, Enos	Birkner	Izat, William	Litchfield
Harding, Thomas F.	Danville		
Harding, William	Lebanon		
Hardy, Rufus E.	Murphysboro	Jackson, George W.	Cable
Harkes, William	Coal City	Jacobson, Charles P.	St. David
Harper, William J.	Springfield	James, John	Mt. Olive
Harper, John	Colchester	James, Johan	Grape Creek
Harrison, Earnest	Streator	Jaques, William	Belleville
Harrison, John	Virden	Jaques, Richard	Belleville
Harrison, John, ex	Odin	Jenford, R. H.	Kingston Mines
Harrison, William	Murphysboro	Jefford, Thomas H., ex	Kingston
Harrison, James	Athens	Jeffrey, Peter	Carterville
Hartrop, James T.	Seatonville	Jenkins, Alexander	Dunfermline
Hartman, Frank, ex	Murphysboro	Jenkins, David	South Danville
Hartman, Wm	Freeburg	Jenkins, Thomas C.	Murphysboro
Haselton, F. D.	Spaulding	Jenkins, J. A.	Dunfermline
Haskins, George H.	Grape Creek	Jenkins, John L.	Fairbury
Haskins, Joseph	Grape Creek	Jerrimire, William M.	Duquoin
Hauck, Fred.	Glen Carbon	Jerrell, John W.	Equality
Hawkins, Sidney	Belleville	John, Evan D.	Spaulding
Haydon, J. S.	Springfield	Johnson, William	Danville
Hayes, Webster	Edwardsville	Johnston, Cochran	Spring Valley
Heves, Henry	Streator	Johnston, Samuel	Oglesby
Hebenstreit, Bruno	Staunton	Johnston, William	Marion
Hebenstreit, E. W.	Staunton	Jolly, Thomas F. (d.)	Collinsville
Hebenstreit, T. G.	Staunton	Jones, Charles	Marissa
Hebenstreit, J. P.	Staunton	Jones, David	Marissa
Heiple, Walter	DeSoto	Jones, D. L.	Taylorville
Helfrich, Henry	Rentchler	Jones, John T.	Lebanon
Henderson, Edward	Springfield	Jones, Edward	Oglesby
Henderson, Joseph	Coal City	Jones, Harry D.	Riverton
Henderson, Thomas	Marissa	Jones, John H.	Duquoin
Hendricks, Chas. W.	Belleville	Jones, Logan	Marissa
Henley, J. H.	New Athens	Jones, Robt R.	Oglesby
Henley, Richard	Niantic	Jones, T. L.	Ladd
Heppard, George	Tilden	Jones, William	Marissa
Henry, Frederick	Kewanee	Jones, William E.	Sheffield
Henry, John T.	Pontiac	Jones, William E.	Wesley City
Henry, Philip	Kewanee	Jones, William M.	Tamaroa
Heriot, James	Spring Valley	Jordan, Robert (d.)	Streator
Hetherington, Benj. M.	LaSalle		
Hibberd, George	Peoria	Kable, Joseph	Coulterville
Hickey, John	Springfield	Kane, Charles H.	Dunfermline
Hicks, Richd J.	Sherrard	Kaney, John	Centralia
Higbee, A. W.	Wyoming	Kay, John	Pawnee
Higbee, James	Wyoming	Kay, James	Sherrard
Hill, Marshall	Carterville	Karral, Charles	Westville
Hillary, Edward	Colchester	Karrall, Edgar	Braceville
Hind, John A.	Moline	Keating, James A.	Streator
Hindson, Harvey	Canton	Keay, A. H. S.	Seatonville
Hissong, Charles	Tilden	Keay, John (d.)	Springfield
Hoffman, John	DuQuoin	Keefe, Edward	Colfax
Holmes, Thomas F.	Lincoln	Keefer, William	Danville
Horning, Charles A.	Harrisburg	Kell, Matthew	Dubois
Houstan, Robert	Percy	Dell, Peter	Dubois
Howell, Thomas H.	Duquoin	Kelley, Bernard	Litchfield
Howell, D. J.	Duquoin	Kelley, D. J.	Carbon Hill
Howells, Eben (d.)	Braceville	Kelly, Frank S.	Centralia
Howells, T. J.	Duquoin	Kelley, Joseph G., (ex)	Braidwood
Hoye, James	Braidwood	Kelley, Robert D.	Carbon Hill
Hoye, William	Braidwood	Kelley, J. D., Sr.	Carbon Hill
Hoddy, T. H.	Staunton	Kempper, Henry	Gillespie
Hudson, Thomas	Etherly	Kenney, Thomas	Springfield
Hughes, James	Braidwood	Kerr, John	Rushville
Hughes, John W.	Braidwood	Kidd, Alexander	Oglesby
Hughes, Hugh J.	Pana	Kidd, Andrew	Oglesby
Hughes, John J.	Litchfield	Kidd, W.	Ridge Prairie
Humme, J. A.	Hillary	Kidd, Neugene	Ridge Prairie

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
ash, David	Edwards Station	<i>Meehan, Feter</i>	Williamsville
sworth, C.	Pinckneyville	Michaels, Theodore	Belleville
d, Lee	Athens	Millard, John	Peoria
James	Athens	Miller, Edward	Sorento
er, Frank	Belleville	Millburn, Thomas	Loceyville
ood, Martin	Birkner	Middleton, Jas. L.	Sandoval
nfus, Otto	Belleville	<i>Michael's, Lewis</i>	Belleville
nfus, Emil	Belleville	Michaels, Otto L.	Belleville
er, Joseph	Pana	Miller, Alexander	Ridge Prairie
Charles	Seatonville	Miller, Hugh	Coal City
Henry	Breese	<i>Miller, Wm</i>	Lenzburg
mp, Wm.	Hillsboro	Miller, Geo. W.	Pawnee
<i>r, Anthony F.</i>	Sato	Miller, John K.	Staunton
Jacob	Belleville	<i>Milem, John</i>	Norris
ert, Wm.	Springfield	<i>Millett, Thos</i>	Collinsville
r, August	Bartonville	Millhouse, John G.	Spring Valley
r, Adolph	Belleville	Mills, T. J.	Cable
r, Alexander	Carterville	Mitchel, T. J.	Pana
e, Frank	Worden	Moffat, R. E.	Percy
James M.	Athens	<i>Moffat, Thos</i>	Percy
J. M.	Cuba	<i>Monaghan, Edward</i>	Carbon Hill
n, John	Mt. Olive	Monaghan, Wm.	Braidwood
n, Thomas	Lake Creek	Moore, Alexander J.	Springfield
n, John	Cable	Moore, Samuel	Chicago
d, Edward E.	Harrisburg	Moreland, John, Jr.	Wenona
obert	Sherrard	Moran, Mark	Pekin
obert	Sherrard	<i>Morin, Jeremiah</i>	Danville
hellcross G.	Canton	Morin, D. A.	Danville
William J.	Cable	Morgan, Geo.	Springfield
ld, Herman A.	Springfield	Morgan, Joseph	Streator
d, W. C.	Duquoin	Morgan, Isaac B.	Ladd
me, William	Carbon Hill	Morris, G. W.	Lebanon
me, Absalom	Carbon Hill	Morris, J. H.	Nashville
Charles F.	Sparta	Morris, James F.	Springfield
James	Bryant	Morris, P. K.	Roanoke
William	Streator	Morris, Wm. H.	Belleville
y, Richard	Collinsville	Morris, Joseph	Nashville
y, John O.	Duquoin	Morris, Robert	Marion
y, Robert	Springfield	Morrissey, Thomas	Lebanon
P. J.	Braidwood	Morrison, D. H.	Girard
James H.	Peters Station	Morton, Andrew	Virginia
Peter	Peoria	<i>Morton, Robert</i>	Virginia
Thomas	Summerfield	Moss, Thomas	Staunton
David J.	Edinburg	Mould, Thomas R.	O'Fallon
Rowland R.	Barclay	Murdock, John	Breeds
John E.	Danville	Muir, Hunter	Etherly
Thomas	Rentchler	Munster, Anton	Westville
Thomas	Wanlock	Munts, Jazeb	Streator
ohn S.	Springfield	Muntz, Wm.	Streator
Henry L.	Virden	Murphy, Jerry	Chatham
ohn W.	Carbon Hill	<i>Murphy, John</i>	Braidwood
y, Frank	Orchard Mines	Murphy, Patrick	Springfield
hi, Joseph	Collinsville	Murray, A.	Nashville
hi, Louis F.	Collinsville	Murray, Hugh	Sparta
		Murray, J. H.	Galva
		Murrie, Archibald	Centralia
P. H.	Ledford	Mustard, Geo.	Norris
m, Wm. J.	Braceville	McAllister, Hector	Streator
Henry E. (d)	Decatur	McAnarney, James	Girard
Harry	Springfield	McCann, Patrick	Lincoln
e, Frank	Pinckneyville	McClary, John	Cantrall
Wm. (d)	Braidwood	<i>McCleery, Jas</i>	Kanglev
Jacob	Mascontah	McClintock, John	Murphysboro
id, John, Jr.	Wenona	McCraner, Jas.	Girard
id, John, Sr., ex	Wenona	McCride, David	Oglesby
Jas	Riverton	McCullough, W. F.	Mapleton
Chas	Middle Grove	McDill, Jas.	Pana
Geo	Farmington	McDonald, Robert	Streator
Eli	Edinburg	McDonald, Wm.	Braidwood
<i>Mark, Jr.</i>	Sato	McFadden, Joseph	Danville
John G.	Marissa	McFarland, Wm. A.	Edwardsville
ws, W. S.	Kimundy	McGeachen, Robert	Sorento
ell, Angus	Carlinville	McGinnis, John	Springfield
<i>Alexander</i>	Belleville	McGunnigal, John	Murphysboro
<i>John F.</i>	Pana	McGunnigal, James	Marissa
<i>Duncan</i>	Oglesby	<i>McGunnigal, Bernard</i>	Spring Valley
<i>Patrick</i>	Breeds	McKean, Isaac	Coal City



## Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
McKeown, Frank	Decatur	Postle, John	Braceville
McKernan, Jas	Collinsville	Powell, Albert E	Belleville
McLearn, Archibald	Collinsville	Powell, Evan	Murphysboro
McLaughlin, Wm	Auburn	Powell, David, ex	Braceville
McLaughlin, Wm	Ava	Powell, J. E	Sato
McLaughlin, John	Girard	Powell, Thomas H	Belleville
McLean, Robert	Girard	Powell, Samuel	Roanoke
McManamon, Patrick F	Spring Valley	Price, William	Braceville
McMorrow, Michael	Farmington	Prince, Thomas	Gillespie
McMath, George	Carterville	Proctor, Michael J	Toluca
McMurtie, A. B	Bryden	Prudent, Edward	Centralia
McWhinney, Andrew	Viriden	Pryce, John M	Coal Valley
McMorrow, Thomas	Farmington	Pugh, Daniel	St. John
McNabb, Wm	Athens	Pullen, Charles	Litchfield
		Pullen, James	Sorento
		Pye, William	Bartonville
Neal, Reese	Kangley		
Neal, Albert M	Murphysboro	Raby, Robert A	Cuba
Neal, Wm	Murphysboro	Radford, Thomas, ex	Bloomington
Needles, Thadeus	Glenburn	Radford, William	Cuba
Neeson, Richard	Divernon	Radford, James	Springfield
Neil, Peter, ex	Bunker Hill	Radford, William T	Bloomington
Newcomb, H. C	Pana	Rae, Robert	Braidwood
Newman, Henry T	Springfield	Ramsey, Charles J	Gillespie
Newsam, John	Kingston	Randle, Jesse	Birkner
Newsam, Richard	Orchard Mines	Karick, Phil, W	Glen Carbon
Newsam, Richard, Jr	Kingston Mines	Katcliffe, Arthur	Kewanee
Newsam, Thomas	Kingston Mines	Rauth, John	Belleville
Newsam, Thomas, Jr	Kingston Mines	Rasmussen, James E	Mineral
Nesbit, Charles, ex	Millstadt	Rasbottom, Frank	Kingston
Neveney, John	Belleville	Reagan, Daniel	Muddy Valley
Nevill, George W	Duquoin	Reavley, Robert	Riverton
Nicholson, George A	Cuba	Redyard, John	Odin
Nicholson, Wm	Cuba	Reeb, Phillip	Belleville
Nixon, Robert	Viriden	Reed, W. M	Girard
Noll, Peter	Belleville	Reed, Wm. B.	Willman
Nold, Fred	Freeburg	Reents, August	Kramm
Nordeen, Peter	Galva	Reece, Daniel	Danville
Nordness, C. K	Girard	Reid, Andrew	Springfield
Notman, George	Streator	Reid, Joseph	Marion
		Reilly, Edward	Danville
O'Beirne, John	Spring Valley	Reimann, John	Belleville
O'Brien, John W	Toluca	Rennison, Henry	St. John
O'Brien, John J	Marquette	Reynolds, William	East Peoria
O'Brien, James	Belleville	Reynolds, John	Streator
O'Brine, Patrick J	Spring Valley	Rhodes, Jefferson	Pana
O'Brine, Wm	Pana	Richards, John	Murphysboro
O'Connor, James	Spring Valley	Richardson, Joseph	Litchfield
O'Connor, John	Braidwood	Richardson, Robert	Carterville
O'Connor, Patrick F	Paislev	Ridgley, O. L	Mt. Olive
O'Leary, John	Marquette	Ritchie, Alex, Sr	Clinton
Opie, Wm	Sandoval	Ritchie, A. Jr	Trenton
Owen, Wm	Tallula	Rittmann, J. J	Decatur
Owens, Robert	Marion	Roberts, Benjamin D	Streator
		Roberts, Hiram	Collinsville
Parker, Albert	Collinsville	Roberts, John D, ex	Streator
Passent, Wm. C	Barclay	Roberts, Thomas D	Streator
Patchet, John	Murphysboro	Robinson, Henry	Gardner
Patterson, J. C	Assumption	Robinson, John T	Kingston Mines
Payne, Harvey	Riverton	Robinson, L. E	Kingston Mines
Peart, John	Braidwood	Rodden, John	Pana
Penwell, C. T	Pana	Rodenburg, Charles	Belleville
Percell, Thomas	Norris	Roe, Samuel	Oglesby
Peters, J. D	Murphysboro	Roe, Thomas	Oglesby
Pettier, Moses	Spring Valley	Rogers, Charles	Duquoin
Phillips, James	Minonk	Rogers, Josiah	Braidwood
Pick, Edward	Centralia	Rogers, Llewellen	Braidwood
Pickett, Robert	Spring Valley	Rollo, George	Mt. Olive
Picton, Joseph	St. David	Rollo, John	Gillespie
Picton, John W	Farmington	Rollo, William	Pana
Pierson, Robert	Harrisburg	Rookin, Thomas	Edwards Station
Pierce, William	Edinburg	Ross, David	Oglesby
Poelker, Joseph	Germantown	Rosbottom, James	Kingston Mines
Poole, Edgar E	Murphysboro	Rowland, Charles, ex	Belleville
Potter, George	Mapleton	Rundle, John C	Colchester
		Rundle, William	Pekin

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
e, Walton .....	Alton .....	Staehle, August .....	Belleville .....
e, J. J. ....	Stanton .....	Stanton, William E., ex .....	Colchester .....
mes (d) .....	Springfield .....	Stearns, James .....	Hallidayboro .....
thomas .....	N. Springfield .....	Steiner, Benjamin .....	Sato .....
		Steel, Alexander .....	Streator .....
st, Marshall .....	Mt. Olive .....	Steel, Daniel .....	Collinsville .....
John M. ....	Hanna City .....	Steel, James .....	Spring Valley .....
Henry S., ex .....	Streator .....	Steel, Neal .....	Centralia .....
ederick .....	Belleville .....	Stewart, D. G. ....	Seatonville .....
William .....	Coal City .....	Stirrat, James .....	Peoria .....
Joseph .....	Bartonville .....	Stockett, Howard N. ....	Springfield .....
Richard .....	Belleville .....	Stockett, Lewis .....	Collinsville .....
John .....	Bartonville .....	Stockett, Thos. R., Jr. ....	St. Louis, Mo. ....
hmidt, Ernst .....	East Peoria .....	Stockman, W. H. ....	Duquoin .....
William J. ....	Glen Carbon .....	Stoneburner, L. L. ....	Moweaqua .....
Castling R. ....	Braceville .....	Storrie, Archibald .....	Seatonville .....
n, Charles W. ....	Lenzburg .....	Stratman, Henry, ex. (d) ..	Springfield .....
ederick D. ....	Odin .....	Straley, Peter .....	Canton .....
Thomas .....	Paisley .....	Strebel, George .....	Edwardsville .....
George .....	St. John .....	Strickland, John .....	Coal City .....
Charles .....	Danville .....	Stricklin, W. H. ....	Harrisburg .....
n, John C. ....	Gillespie .....	Sutton, Thomas .....	Millstadt .....
ames .....	Peoria .....	Swansberg, John L. ....	Danville .....
Montgomery, ex ..	Coal City .....	Swarthout, J. P. ....	Peoria .....
R. A. ....	Galva .....	Syson, Frank .....	Niantic .....
oseph .....	Bartonville .....		
Frank D. ....	Pana .....	Tallman, John, ex .....	Kangley .....
Charles .....	Gilchrist .....	Tattersall, George .....	Seneca .....
ohn S. ....	Pana .....	Taylor, Charles .....	Edwards .....
James .....	Streator .....	Taylor, Daniel .....	Edwards .....
John .....	Edwardsville .....	Taylor, Henry .....	Belleville .....
Samuel .....	Streator .....	Taylor, James .....	Edwards .....
is, Thomas .....	Canton .....	Taylor, Joseph .....	Springfield .....
1, Isaac .....	Glen Carbon .....	Taylor, Thomas, ex .....	O'Fallon .....
n, David .....	Spring Valley .....	Taylor, Thomas, ex .....	Springfield .....
n, David .....	Springfield .....	Tenney, Charles .....	Danville .....
n, George A. ....	Springfield .....	Thain, James .....	Riverton .....
n, George C. ....	Springfield .....	Thom, Alexander, ex .....	Coal City .....
n, William J. ....	Collinsville .....	Thomas, H. ....	Westville .....
n, Thomas .....	Collinsville .....	Thomas, J. G. ....	Spring Valley .....
n, Thomas .....	O'Fallon .....	Thomas, John R. ....	Ladd .....
haries A. ....	Johnson City .....	Thomas, T. J. ....	Collinsville .....
J. ....	Equality .....	Thomas, Reese .....	Spaulding .....
, Alexander .....	Diamond .....	Thomas, David B. ....	Murphysboro .....
, David (d) .....	Diamond .....	Thomas, Richard .....	Ridge Prairie .....
, John .....	Diamond .....	Thome, Martin, ex .....	Bartonville .....
, John .....	Astoria .....	Thompson, John .....	DeSoto .....
, A. H. ....	Coal City .....	Thompson, Robert C. ....	Murphysboro .....
Edward C. ....	Wesley City .....	Thompson, Mark .....	Sherrard .....
James .....	Middle Grove .....	Thompson, William .....	Mt. Olive .....
rest, Nathan .....	Spring alley .....	Thornton, James .....	Duquoin .....
Alexander M. ....	Sandoval .....	Thorand, Joseph .....	Trenton .....
David P. ....	Dawson .....	Thrush, David .....	Farmington .....
Felix .....	Birkner .....	Tolle, E. B. ....	Kingston Mines .....
James .....	LaSalle .....	Tregoning, Walter .....	Murphysboro .....
George A. ....	Sandoval .....	Twomley, Edwin, ex .....	Coal Valley .....
James L. ....	Mount Olive .....	Turton, William .....	Edwardsville .....
James .....	East Peoria .....		
James L. ....	Riverton .....	Ulrich, Casper .....	Tilden .....
James P. ....	Collinsville .....		
Henry W. ....	Springfield .....	Vallow, Charles .....	Kinmundy .....
Joseph .....	Bloomington .....	Vandebur, John, ex .....	Springfield .....
T. J. ....	Pana .....	Vandever, P. E. ....	Taylorville .....
William .....	Athens .....	Vicary, William .....	Pottstown .....
William G. ....	Riverton .....	Vicary, George .....	Pottstown .....
W. H. ....	Hillsboro .....	Vicary, John, ex .....	Lincoln .....
Thomas .....	Belleville .....	Vose, John .....	Springfield .....
W. J. ....	Girard .....		
n, Richard .....	Virden .....	Wagner, I. ....	Mapleton .....
n, Alexander .....	Peoria .....	Walker, John K. ....	Chenoo .....
erger, Harry C. ....	Dunfermline .....	Wallace, David .....	Carterville .....
n, John .....	Springfield .....	Walland, Ed. S., ex .....	Bartonville .....
n, Peter H. ....	Springfield .....	Walmsley, George .....	East Peoria .....
orth, Andrew P. ....	Belleville .....		
Alfred .....	Braceville .....		
, Albert R. ....	Glen Carbon .....		

## Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walschtag, Stephen.....	Peoria.....	Williams, Wm. H.....	Edinburg.....
Walsh, Patrick.....	Springfield.....	Williams, W. W.....	Hornsby.....
Walsh, Peter P.....	Pleasant Plains.....	Williams, David Y.....	Herrin.....
Walters, Wm. H.....	Staunton.....	Williamson, Wm.....	Staunton.....
Wanless, Wm. H.....	Riverton.....	Willson, Hiram E.....	Carbondale.....
Wantling, T. J.....	Peoria.....	Wills, Samuel.....	Westville.....
Wantling, Thomas.....	Pottstown.....	Wilson, John.....	Coal City.....
Walters, Thomas W.....	Ladd.....	Wilson, David.....	Murphysboro.....
Ward, Wilson.....	Riverton.....	Wilson, David.....	Spring Valley.....
Warren, James M.....	Herrin.....	Wilson, Hugh.....	Kinmundy.....
Watson, George R.....	Wyoming.....	Wilson, Alexander.....	Carbon Hill.....
Watkins, W. J.....	Danville.....	Wilson, Hiram.....	Carbondale.....
Watts, Thomas J.....	Elmwood.....	Wilson, H. C.....	Pekin.....
Watts, William.....	Elmwood.....	Wilson, John B.....	Sparta.....
Weber, Henry.....	Murphysboro.....	Wilson, John J.....	Wesley City.....
Webster, Richard.....	Collinsville.....	Wilson, Robert.....	Roaroke.....
Weeks, Thomas.....	Streator.....	Wilson, William.....	Middle Grove.....
Weisenborn, F. E.....	Mt. Olive.....	Wilson, Thomas.....	Norris.....
Wenneborg, Otto.....	Springfield.....	Wilson, Wm.....	Sparta.....
Westwater, David.....	Pekin.....	Wilson, W. R.....	Reed City.....
Westwood, Albert.....	Belleville.....	Winneberg, W.....	Springfield.....
Westwood, John.....	Streator.....	Winning, James.....	Carterville.....
Westwood, Thomas.....	Belleville.....	Winning, Robert.....	Carterville.....
Wheatcraft, James.....	Elmwood.....	Winterbottom, John.....	Murphysboro.....
Whennen, Charles.....	Oglesby.....	Winters, Samuel P.....	Bartonville.....
Whitaker, John.....	Collinsville.....	Wittman, Daniel.....	New Baden.....
Whitaker, Wm. J.....	Collinsville.....	Walschlag, Stephen, ex.....	Peoria.....
White, John R.....	Belleville.....	Wood, Henry.....	Streator.....
White, Michael.....	Virden.....	Woods, William, ex.....	Morris.....
White, Owen.....	Seatonville.....	Worthington, Willard.....	Duquoin.....
Whitehead, Joseph.....	Farmington.....	Wright, John.....	Belleville.....
Wild, James.....	Murphysboro.....	Wright, J. W.....	Kingston Mines.....
Wiley, Robertson.....	St. David.....		
Wilkinson, Frank.....	Westville.....	Yates, John.....	Belleville.....
Wilkinson, T. H.....	Diamond.....	Young, Hiram.....	Girard.....
Williams, James.....	Murphysboro.....	Young, Hugh G.....	Braidwood.....
Williams, Jeff.....	Farmington.....		
Williams, John.....	Riverton.....	Zink, Peter A.....	Belleville.....
Williams, Louis.....	Belleville.....	Zoller, Robert H.....	Braidwood.....
Williams, Robert H.....	Girard.....		
Williams, Walter.....	Duquoin.....		

## MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro.....	Collier, Frank J.....	Bartonville.....
Alsopp, William H.....	New Castle.....	Cooper, Charles.....	Nilwood.....
Andreas, August.....	Belleville.....	Coster, George.....	Grape Creek.....
Angel, Hiram.....	Glenn.....	Crawson, Elhu.....	O'Fallon.....
Atkinson, Edward.....	Streator.....	Cummings, William.....	Rushville.....
Axford, Thomas.....	Petersburg.....	Cusack, M.....	Edwards.....
Bailey, Robert.....	Sunfield.....	Dale, John.....	Fredonia.....
Bangart, Henry (d).....	Lincoln.....	Davenport, John.....	Harrisburg.....
Bartlett, Thomas.....	Cuba.....	Davis, Caleb.....	Collinsville.....
Barwell, John.....	Cutler.....	Davison, Matthew.....	DuQuoin.....
Bates, W. H.....	Winchester.....	Deans, Henry.....	Percy.....
Betz, Charles C.....	Duquoin.....	Donaly, James.....	Carterville.....
Bolander, John.....	Pekin.....	Duffner, J. W.....	Belleville.....
Bracken, James A.....	Greenview.....		
Brown, Jabez.....	Cutler.....	Enstminger, Emanuel E.....	Crab Orchard.....
Brown, Thomas M.....	Pinckneyville.....	Entwhistle, Robert.....	Colchester.....
Bunting, J. H.....	Grape Creek.....	Erwin, William.....	West Belleville.....
Bushong, Andrew M.....	Danville.....		
Caldwell, James.....	Elmwood.....	Fagan, Patrick.....	Decatur.....
Cameron, Duncan S.....	Sorento.....	Fletcher, Adam.....	Ladd.....
Cape, Thomas.....	Fairview.....	Forsythe, Peter.....	Centralla.....
Chere, George.....	Pleasant Plains.....	Forsythe, Thomas.....	Centralla.....
Christie, David.....	Murphysboro.....	Fowler, Henry.....	Millersburg.....

*Certificate of Service—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
<i>Bernard.</i>	Lincoln	McDonald, Daniel	Menard
<i>Edward.</i>	Niantic	McDowell, James A.	Grape Creek
<i>John.</i>	Peoria	McKernan, James	Collinsville
<i>Wm.</i>	Cuba		
<i>George.</i>	Springfield	Neal, William	Murphysboro
<i>Henry.</i>	Orchard Mines	Nicholson, William	Cuba
<i>Wid.</i>	Pekin	Noyd, Lewis	Galva
<i>in (d).</i>	Roanoke		
<i>Bert.</i>	Springfield	Oexner, Wendelin	West Belleville
<i>Robert.</i>	Duquoin		
<i>eter.</i>	Collinsville	Parkin, William	Sweetwater
<i>William A.</i>	Colona	Patterson, J. C.	Assumption
		Pearl, John	Braidwood
Robert.	Cable	Pfander, Fred	Peoria
Daniel	Lenzburg	Pickett, Robert	Canton
Ernest	Streator	Pool, Edgar E.	Murphysboro
Lin L.	LaSalle	Price, David	Fairbury
William	Streator	Price, James L.	Danville
res.	Braidwood	Pullen, Charles	Sorento
James	Tallula		
yer, Julius	Golden Eagle	Radford, William	Cuba
		Randle, Jessie	Birkner
Eugene	Bartonville	Reynolds, William	East Peoria
Wm. M.	Duquoin	Royster, Moses L.	Peoria
vid	Marissa	Rusche, Christian (d)	East Peoria
		Ryan, James	Springfield
George, Jr.	Bartonville	Schmidt, Frank P.	Limestone
Andrew	Wenona	Shaw, Nathan	Kramm
Eugene	Ridge Prairie	Smith, David P.	Dawson
Bernard	Kewanee	Smith, Felix	Breese
agen, Henry	Belleville	Solomon, Robert	Springfield
Anthony F.	Sato	Spencer, George	Duquoin
		Stanway, George	Blair
tus, Philip H.	Tamaroa	Stark, Andrew	Galva
Charles	Belleville	Stewart, David J.	Seatonville
losea W.	Sheffield	Stuhlsatz, Michael	Kewanee
		Sutton, Thomas	Millstadt
tark, Jr.	Sato	Swan, Charles	Oakwood
Robert	Belleville	Swisher, James E.	St. David
Patrick	Breeds		
Peter	Williamsville	Teifer, Alexander W.	Morris
C. W.	Augusta	Terrill, Thomas	Colchester
Lewis	Belleville	Thompson, John	DeSoto
Nicholas	Lebanon	Thornton, James	Duquoin
William	Lenzburg		
hn	Norris	Waugh, George, Sr.	Peoria
Thomas	Collinsville	Westwood, Thomas	Belleville
Thomas	Percy	Wilkin, John B.	Petersburg
n, Edward	Carbon Hill	Williams, John	Sato
remiah	Danville	Williams, John T.	Coalville
Robert	Virginia	Williams, Walter	Duquoin
John	Braidwood	Wilms, William	Springfield
James	Kangley		

MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES  
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
M.	Laura	Ahlgren, Emil	Kewanee
John	Denmark	Alexander, Orie A.	Huntsville
William R.	Danville	Allen, James T.	Pleasant View
f. M.	Geneseo	Allen, W. P.	Spillerton
		Allison, John	Loding

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Allison, Elmer	Danville	Boostrom, Ben B.	Wataga
Anderson, Alexander	Sato	Bonnett, A. H.	Pilot
Anderson, Le- A.	Streator	Bowman, G. W.	Yates City
Anderson, N. C.	Ottawa	Bowman, T. L.	Industry
Anderson, Josh	Equality	Boyer, A. P.	Etherly
Anderson, M. H.	Knoxville	Brackhouse, Fred	Chapin
Anna, Charles	Wataga	Braunaman, F. L.	Danville
Argus, Leonard	Belleville	Brandt, Jean	Georgetown
Arrandale, Jno. W.	Streator	Brandt, Henry C.	Petersburg
Ascraft, J. W.	Mayton	Brandt, William	Mineral
Aston, Emanuel	Danville	Brannon, James	Grape Creek
Atkinson, Amos	Colchester	Brennan, George	Caseyville
Atkinson, M.	Kewanee	Brinley, Ross	Danville
Atkinson, Chas. W.	Colchester	Broderick, Andrew	Danville
Auglin, John	Shelbyville	Brophy, M.	Shelbyville
Avery, Geo. W.	Industry	Brown, John	Ottawa
Axley, Edward	Roodhouse	Brown, S. C.	Lewistown
		Brooker, Fred	Lowell
Backling, William	East Peoria	Bryan, John	Grape Creek
Backofen, Jacob	Littletown	Bryant, S. C.	Grape Creek
Bailey, Oliver	Carbondale	Bryner, Leonidos	Roseville
Baird, W. C.	Carbondale	Buchanan, B. M.	Streator
Baird, Oswald	Colchester	Bullock, Joseph	Collinsville
Baker, L. C.	Oakwood	Bullock, Robt	Duquoin
Baker, William H.	Industry	Bunt, Joseph	Colchester
Baker, Joseph	Ottawa	Bunting, C. J.	Danville
Baker, F. W.	Fairbury	Burdick, Frank	Industry
Baker, Wm. J.	St. David	Burk, W. W.	Conant
Bales, Joseph L.	Danville	Burney, Ralph	Colchester
Balmar, Jno. D.	Bartonville	Butter, William	Stonefort
Ball, Samuel	North Alton	Byrnes, John	Brighton
Banney, H. E.	Abingdon		
Barber, William	Colchester		
Bargreen, Charles	Streator	Cagle, William	Frederick
Barnett, W. M.	Palzo	Cagle, John	Littleton
Barter, Charles	Bryant	Cagdall, A. C.	Stonefort
Bass, Oscar J.	Wyoming	Caldwell, Thomas	Avon
Bates, Geo. H.	Kewanee	Camey, Robt. P.	Lombardville
Bates, Watson	Rushville	Campbell, Ed	White Hall
Bath, Isaac	Lewistown	Campbell, Andrew F.	Roseville
Bath, Abraham	St. Davis	Campbell, Francis A.	Viola
Baugh, William	Henry	Campbell, W. R.	Vergennes
Beatty, John T.	Mascoutah	Cameron, Henry	Viola
Beatty, John T.	Mascoutah	Carlson, Alfred	Sunny Hill
Becroft, Leonard	Atkinson	Carlson, Andrew F.	Kewanee
Bectler, John	Pekin	Carroll, C. E.	Duncan
Beddow, Benj.	Danville	Carroll, Thos. J.	Bunker Hill
Beers, M. A.	Cable	Carrel, A. J.	Duquoin
Beever, J. H.	Farmington	Carter, Elmer	Camden
Begum, Geo. E.	Ottawa	Carter, Joe	Kewanee
Bell, James	Morris	Carter, F. R.	Danville
Bell, Charles	Pleasant View	Carter, Wm. B.	Danville
Beltz, Lindolph	Cartersville	Carson, Charles H.	Fiatt
Helz, George	Cartersville	Carrison, George	Colchester
Bennet, Fred	Chillicothe	Casteter, John	Streator
Benson, William	Winchester	Casteter, William	Streator
Berry, John	Macomb	Catt, A. G.	Newton
Berry, Charles	Monica	Catton, John	West Jersey
Berry, W. J.	Macomb	Catton, C. F.	West Jersey
Berry, R. M.	Cottage Grove	Cbadwick, E.	Oak Hill
Berry, Wm.	Monica	Charlingsworth, Amos C.	Fosterburg
Beuer, Jacob W.	Castletown	Charlson, Chas	Wyoming
Beuer, Joseph	Castletown	Charnok, Wm	Victoria
Bexton, William G.	Colchester	Chesney, Alonzo T.	Ava
Biggs, Henry	Ledford	Chilton, Richard	Kewanee
Bird, Daniel	Roseville	Chipping, W.	Canton
Birdois, D.	Peoria	Chorlton, James	French Village
Birdois, John	Peoria	Christman, Charles W.	Spauland
Blackburn, Kelly	Johnson City	Clark, James A.	Equality
Blagden, Richard	Leaman	Clark, J. H.	Brimfield
Blakey, Cuthbert	Wyoming	Clarkson, William H.	Edwards
Blessing, George	East Peoria	Clarkson, Lorenzo	Kickapoo
Blockley, Rufus	Equality	Clifford, Geo. L.	Onedia
Blotevagall, William	Worden	Cody, Richard	Peoria
Blue, J. W.	Grape Creek	Coespire, G.	Greenburg
Blue, Ed	Grape Creek	Colburn, John R.	Greenburg
Bode, W. H. H.	Chesterfield	Collins, Thomas	Collins
Boden, Ed	Pre-emption	Collins, A. Y.	Greenfield
Boldwyn, T. W.	Vergennes	Collins, W. N.	Ava

*Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Robert	Brimfield	Durham, Simon	Canton
George	Duncan	Dunsford, Charles	Absher
Wis M	Wyoming		
ries	Oakwood	Ebel, August	Belleville
es K	Grape Creek	Eccles, Frank	North Alton
H	Etherly	Edison, James	Ottawa
is B	Alexis	Edwall, C. W.	Galva
lbert W	Etherly	Edwards, Thomas	Streator
V. P.	Peoria	Edwards, T. J.	Crab Orchard
W	Petersburg	Edwards, Geo	Huntsville
oster	Pinkneyville	Edward, David L.	Coal Valley
lie	Kewanee	Edwards, A. G.	New Burnside
George	Wyoming	Edwards, John	Danville
n H	Ava	Elmwood, A. B.	Kewanee
ph	Colchester	Elker, Geo. L.	Knoxville
	Morris	Elliott, James	Caseyville
	Chillicothe	Ellis, Ross M.	Danville
	Stonefort	Emerick, Alonzo	Farmington
red W	Ava	Ennis, James	Peoria
Valter	Pleasant View	Ensinger, E. E.	Crab Orchard
	Pleasant View	Entwistle, W.	Colchester
mes W	Etherly	Erhardt, Anton	Belleville
am, Lewis	Union	Erikson, August	Galva
am, R. A.	Danville	Ernst, Frank	St. Johns
s, Wm. M.	Cutler	Espley, J. T.	Morris
nford	Rushville	Essex, G. W.	Soperville
H.	Rockbridge	Evans, Ed E.	Streator
	Princeville	Evans, Lewis	Kangley
		Evans, W. L.	Cottage Grove
		Eynman, Albert	Lewistown
oseph	Danville		
bez	St. David	Fairley, John	Cambridge
um	Yates City	Farrell, Hugh	Monica
y	Danville	Faust, Jacob	Pinkneyville
N	Blandinsville	Fenwick, Geo. A.	Danville
Robert T	Table Grove	Filker, George	Farmington
ries	Abingdon	Fink, Frank	Truro
jamin	Streator	Fish, William	Appleton
	Fayette	Fisher, W.	Murrayville
s. R	Salisbury	Fisher, Alcide	Brighton
Thomas	Griffin	Flemming, Thomas	Morris
Bert	Colchester	Flynn, William	Briar Bluff
ugustus	Yates City	Foley, William H.	Mapleton
C	Deer Park Glen	Forester, W. M.	Equality
raham L	Middletown	Foster, Geo. W.	Colchester
amille	Orchard Mines	Foster, Thurman	Carbondale
Thomas	Avon	Fox, Thomas	Lewistown
G. F.	Equality	Francis, Wm G.	Streator
J. I.	Equality	Francis, C. W.	Catlin
rnest	Victoria	Fredrickson, Andrew	Danville
vid C	Wyoming	French, Strawther	Bradford
red.	Petersburg	Frisby, E. O.	Sparland
Joseph	Morris	Frisby, W. E.	Sparland
Vm. W	Colchester	Frost, Michael	Danville
hillip	Freeburg	Fry, John	Ray
in	New Burnside	Fuller, James K.	Modena
E	Princeville		
Jas. R	Kewanee	Gaddis, Ed	Hudgens
	Pre-emption	Gallagher, W. F.	Mode
	Lafayette	Gallaith, Zacharias	Morris
Vm. F	East Peoria	Gainey, Thomas	Carbon Cliff
er	Wataga	Garland, Samuel	Kewanee
uis	Green River	Gary, George	Ray
P	Truro	Geisler, Henry	Brighton
len B	Pre-emption	Gedelman, E. F.	Freeburg
Chas.	Campbell Hill	Gensol, Joseph	Lewistown
Edward	Danville	Giebelhausen, Gus E	Peoria
phen A	St. David	Gergens, Martin	Pinkneyville
L	Canton	Gerlach, Geo. F.	Sparta
few	Vandercook	Gilbride, Frank	Morris
F	Danville	Gilderry, W. W.	Monmouth
rt G	Knoxville	Gillette, Charles	Elmira
	Kewanee	Gillis, Neal M.	Winchester
hn	Tennessee	Gillis, Fred F.	Danville
ey	Sheffield		
Oscola	Brimfield		
ey			

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Gilligan, Jackson	Industry	Hinderer, Frank	Frederick
Glenn, Jethn	Briar Bluff	Hoar, William	Colchester
Goble, Frank M.	Industry	Hodge, S. M.	Danville
Golden, James	Kewanee	Hodge, John W.	Rushville
Golden, Richard	Kewanee	Hodge, Benjamin A.	Danville
Goode, Joseph	Lombardville	Hodgett, Absalom	Kewanee
Goudy, W. S.	Brimfield	Hodgson, Wm.	Colchester
Grant, August	Kewanee	Hogercamp, Walter	Pontiac
Greear, William	Coal Valley	Hohimer, Harry	Petersburg
Green, Samuel J.	Colchester	Holley, Wm. G.	Wyoming
Green, Clarence	Sparland	Horrocks, Benj.	Henry
Green, Milton	Keithsburg	Houseman, Fred	Fosterburg
Grice, Albert	Kewanee	Howard, Charles	Modena
Griffiths, Edward	Roodhouse	Howe, Wm.	Streator
Griffiths, Thomas W.	White Hall	Huber, W. H.	Lewistown
Griffiths, D.	Caseyville	Hughes, John	Petersburg
Griffiths, James	Grape Creek	Hudson, Samuel	White Hall
Griffiths, Joseph F.	Moline	Humes, Michael	Colchester
Griggs, Allison	Brimfield	Hurst, John	Belleville
Grim, David, Jr.	Victoria	Hurst, Lot	Bartonville
Grossman, Louis	Smithton	Isackson, Martin	Wataga
Grosweiler, Joseph, Jr.	Pekin	Isackson, P. O.	Wataga
Groth, John	Carbon Cliff	Ingram, Robert H.	Sparland
Groy, Max	Kewanee	Ingram, J. S.	Harrisburg
Guckert, P. P.	Hampton	Irwin, James	Green River
Gunnnett, A. J.	Fairview	Irwin, Fred	Smithton
Gurten, Louis	Pinckneyville	Ivans, W. A.	Cottage Grove
Guy, Thomas	Colchester		
Haiding, James A.	Wyoming	Jacobs, John	Wataga
Hall, John	Colchester	Jacobs, Claude	Danville
Hall, John	Grape Creek	Jacquot, Augustare	Danville
Hall, Charles	Dunfermline	Jack, John	Marion
Hall, Geo. W.	Newton	Jamieson, E. J.	Loding
Hamilton, John W.	Frederick	Jamieson, Guy	Loding
Hamilton, John	Cuba	Jarrell, Miles	Cottage Grove
Hamilton, Gail G.	Frederick	Jayne, Richard	Cuba
Hammett, Otho J.	Chillicothe	Jenkins, D. A.	Danville
Handly, John L.	Coal Valley	Jenner, A. T.	Pinckneyville
Hanmann, Wm.	Okawville	Johnson, C. E.	Canton
Harbaugh, Geo. W.	Chesterfield	Johnson, Cornelius F.	Middletown
Harnisch, Ernest	Brighton	Johnson, J.	Farmington
Harrington, Frank	Farmington	Johnson, Benjamin	Smithboro
Harrington, D.	Danville	Johnson, J. E.	Dunfermline
Harris, A. J.	Tilton	Jones, W. L.	Bradford
Harris, Oliver	Canton	Jones, C. S.	Sato
Harris, Hardy	Catlin	Jones, W. W.	Bradford
Harrman, John	Peoria	Jones, A. J.	Peoria
Harvey, John	Murphysboro	Jones, A. H.	Colchester
Haskins, Alfred	Grape Creek	Jones, James H.	Streator
Havens, Bert	Truro	Jones, John L.	Peoria
Haves, C. G.	Kewanee	Jones, Jackson	Winchester
Heathcock, George	Princeton	Jones, W. H.	Catlin
Heather, James	Morris	Jones, Wm. J.	Kewanee
Heintz, A. F.	Kickapoo	Jones, Evan A.	Cotlin
Hendee, Isaac	Bernadotte	Jones, Arthur	Viola
Henry, Samuel	Danville	Jones, Thomas	Peoria
Henson, John F.	Denmark	Jones, Andrew	Winchester
Hennemann, Charles	Belleville	Joos, Conrad	Peoria
Herman, John	Oraville	Jordan, Will	St. David
Herman, John	Kewanee	Jordan, John L.	Trivoli
Herkstrom, E.	Victoria	Jordan, E. S.	Newton
Herrington, Thomas	Princeton	Joubost, George	Grayville
Herseman, Herman	East Peoria	Jourdan, Wm. L.	Smithton
Hewitt, William B.	Chenoa		
Hews, W. B.	Canton	Kabel, Herman	Moro
Hibberd, Lewis W.	Peoria	Kavanaugh, J. A.	Colchester
Hickson, David	Ottawa	Kay, James	Atkinson
Hicks, Wm. E.	Crab Orchard	Kay, William H.	Morris
Hickman, Willis	Frederick	Kay, Bert	Atkinson
Higbee, Lawrence	Princeville	Kay, Robert	Briar Bluff
Hissong, Charles	Tilden	Kay, Wm. G.	Atkinson
Hibbard, Geo. A.	Limestone	Kelly, Thomas	Grape Creek
Hillard, E.	Colchester	Kear, George G.	Sparland
Hillier, Walter T.	Carbondale	Kearney, John	Shelbyville
Hind, Robert	Salisbury	Keel, W. L.	Stoneton

## Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Henry.....	Friendsville.....	Martin, Geo.....	Kewanee.....
am.....	Kewanee.....	Marriage, Joseph.....	Grape Creek.....
W.....	Rushville.....	Marxer, Joseph.....	Milstadt.....
Am. C.....	Briar Bluff.....	Marley, Richard.....	Atkinson.....
prose L.....	Roseville.....	Marshall, G. A.....	Cuba.....
m T.....	Shawneetown.....	Marshall, J. C.....	Caseyville.....
ph.....	Victoria.....	Mason, Frank A.....	Carbondale.....
ry R.....	New Burnside.....	Massey, Jesse.....	Streator.....
Paris.....	Pekin.....	Matsinger, Theodore.....	Crab Orchard.....
ar.....	Campbell Hill.....	Mauck, Joseph.....	Danville.....
William.....	Wyoming.....	Mauck, L. F.....	Danville.....
s. Emil.....	Equality.....	Medearis, Jas.....	Henry.....
in.....	Streator.....	Meiker, B. F.....	Danville.....
Fred.....	Colchester.....	Melvin, Leo.....	Kewanee.....
A.....	Belleville.....	Melvin, R.....	Kewanee.....
	Roodhouse.....	Mellegram, John.....	Petersburg.....
	Rapid City.....	Meller, Louis.....	Brighton.....
	North Alton.....	Memmer, L.....	Canton.....
		Mercy, Geo.....	St. David.....
vid.....	Monica.....	Merrill, R. M.....	Crab Orchard.....
in.....	Kewanee.....	Mescher, W. T.....	Campbell Hill.....
ustin H.....	Keensburg.....	Mertz, Wm. M.....	LaHarpe.....
as.....	Peoria.....	Miffs, Henry.....	Ottawa.....
ard.....	Colchester.....	Miller, George A.....	New Douglas.....
k.....	Pinckneyville.....	Miller, Silas.....	Danville.....
hn.....	Grape Creek.....	Miller, Eliza.....	Grape Creek.....
as.....	Youngstown.....	Miller, Smith.....	Grape Creek.....
Charles W.....	Alexis.....	Miller, L. S.....	Mapleton.....
O. W.....	Cable.....	Miller, George A.....	Grape Creek.....
Charles W.....	Equality.....	Miller, C. G.....	Danville.....
aries E.....	Galesburg.....	Mitchell, Robert T.....	Youngstown.....
omas.....	Cambridge.....	Mobaker, John.....	Prairie town.....
B.....	Carterville.....	Molloy, John.....	Danville.....
lfred.....	Youngstown.....	Monroe, Archie.....	North Alton.....
	Cable.....	Montooth, Chas.....	Carriers Mills.....
	Kewanee.....	Moorman, Mark.....	Bradford.....
ust.....	Canton.....	Morrison, Alva.....	Illinois City.....
P.....	Danville.....	Moore, John K.....	Modena.....
er, J. R.....	Wataga.....	Moore, Nanly.....	Orian.....
rge.....	Grape Creek.....	Moore, W. F.....	Saline Mines.....
n T.....	Canton.....	Moore, Sim J.....	Victoria.....
Joseph.....	Roseville.....	Moran, Michael F.....	Cottage Grove.....
Edw.....	Roodhouse.....	Morrison, D. D.....	Sheffield.....
sha.....	Roodhouse.....	Morris, Geo. J.....	Danville.....
ij. F.....	Brimfield.....	Morgan, Charles.....	Millersburg.....
David L.....	Danville.....	Mordue, Geo.....	Oneida.....
E.....	Danville.....	Mosher, Charles.....	Colchester.....
I.....	Danville.....	Moss, Oliver.....	Etherly.....
es.....	Danville.....	Morton, T. J.....	Vergennes.....
muel.....	Lewistown.....	Mowbray, Jno.....	Danville.....
Edward J.....	Loding.....	Muir, George.....	Atkinson.....
ewis.....	Chesterfield.....	Munts, Wm.....	Victoria.....
has. H.....	Galva.....	Mulvany, Chris.....	Streator.....
, John H.....	Lewistown.....	Murphy, Fred.....	Farmington.....
xwell.....	Atkinson.....	Murphy, Led.....	Belleville.....
	Fosterburg.....	Murphy, Chas. H.....	Monmouth.....
	Brighton.....	Murcheson, Kenneth.....	Canton.....
	Brighton.....	Murray, Samuel.....	Kewanee.....
	Bunker Hill.....	Mustard, Elijah.....	Monmouth.....
	Coal Valley.....	Muzzy, William H.....	Canton.....
		Myers, W. H.....	Peoria.....
lliam.....	Fairview.....	Myers, Geo.....	Carbondale.....
arry.....	Ray.....	Myers, Perry.....	Ottawa.....
1, James W.....	Duquoin.....	Myers, Chas.....	Bethalto.....
ichard.....	Petersburg.....	McAnnally, Jno.....	LaHarpe.....
lliam, Sr.....	Rock Island.....	McCartney, C. T.....	North Alton.....
W.....	Colchester.....	McDaniel, Chas. C.....	Alexis.....
3.....	Laoc.....	McClure, Marion.....	Wyoming.....
W.....	Laoc.....	McCullough, Jas.....	Colchester.....
ed.....	Farmington.....	McDonald, Samuel.....	Ottawa.....
in H.....	Peoria.....	McElwee, Charles P.....	Moro.....
rick.....	Canton.....	McGovern, T. B.....	Winchester.....
llam Jr.....	Peoria.....	McGuire, S.....	Oneida.....
d A.....	Colchester.....	McGuire, John.....	Oneida.....
	Canton.....	McGuire, Patrick.....	Ausey.....
		McIntire, Geo.....	Winchester.....
			Industry.....



*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
McKahan, Samuel R.	Alexis	Porritt, Thomas	Carterville
McKane, R.	Galva	Portwood, James	Lewistown
McKeen, William H.	Danville	Potter, L.	Mapletown
McKinney, Charles	Cottage Grove	Powers, James	New Burnside
McLain, William H.	Equality	Presson, J. A.	Carbondale
McLaughlin, Joseph	R. F. D., No. 5	Price, John	Wyoming
McMichael, T. M.	New Burnside	Proctor, Christopher	Elmwood
McMillin, William J.	Streator	Pugh, Geo. J.	Ava
McNaught, Henry	Williamsfield	Putnan, Jonah S.	Danville
McNeil, William	Griffin	Pyle, Joseph F.	Kewanee
Nee, John J.	Colchester	Raddlebeck, Joseph	Brimfield
Nelson, James	Knoxville	Raffee, Robert	Farmington
Nelson, Louis	Streator	Rains, Charles	Oraville
Nelson, Nels	Ottawa	Rand, John	Bryant
Nelson, John S.	Morris	Rands, Thomas	Chesterfield
Nelson, Chris.	Chandlerville	Ratcliffe, Arthur	Neponset
Nenneker, Andy	Bushnell	Ratley, Charles	Cypress Junction
Nenneker, Fred	Bushnell	Ray, A. B.	Catlin
Neville, Wm.	Catlin	Ratley, James E.	Equality
Newell, J.	Sparland	Ray, William	Danville
Newton, F. B.	Modena	Rayborn, George	Winchester
Newton, Geo. H.	Toulon	Reed, William	Soperville
Newton, Ben F.	Bradford	Rennick, William C.	Modena
Nibbelin, John	Elwood	Reed, W. B.	Wilsman
Nighswonger, Asa	Sparland	Reed, John	Herrin
Nodeon, E. W.	Wataga	Reib, Conrad	Belleville
Norris, Floyd	Duquoin	Reid, J. Thomas	Salline Mines
Nozley, Alfred	Golden	Reinhardt, Frank	Wataga
Nyde, John E.	Galva	Reiff, Jacob	Kewanee
		Reeves, John	Hudgens
		Revis, J. H.	Roodhouse
O'Daniel, Arthur	Danville	Reynolds, James	Colchester
Oldham, Ralph	Colchester	Renshaw, John	Eden
Odum, D. B.	Carriers Mills	Reese, Lemuel	Streator
Owens, Orby G.	Stonefort	Rhoades, Benjamin	Shelbyville
		Ribley, R.	Cuba
Pahlman, H.	Bluffs	Richardson, John	Shelbyville
Parker, William	Milan	Richardson, William	Moro
Parker, W. G.	Winchester	Richards, Thomas	Ottawa
Parle, Sylvester	Danville	Rich, John C.	Carbondale
Parr, Joseph	Princeville	Richard, George	French Village
Parthan, M.	Sato	Riegels, Adolph	Golden Eagle
Paul, John	Sheffield	Riley, J. K.	Breeds
Payne, Charles C.	St. John	Riley, Michael	Braidwood
Pearson, William M.	Astoria	Riley, Cyrus W.	Mineral
Pearson, John	Colchester	Riley, Elmer	Atkinson
Peck, E. E.	Canton	Ringer, Benjamin	Morris
Pendergast, John	Soperville	Robbins, J. W.	Glasford
Penman, James	Streator	Robinson, Benjamin	Wyoming
Penman, William	Preemption	Robinson, William	Colchester
Penn, George	Belleville	Robinson, J. M.	Elmira
Penn, Henry	Brimfield	Robinson, John W.	Wyoming
Perkins, John E.	Osceola	Robinson, Robert	Wyoming
Perkins, J. B.	Ray	Robinson, Wm. H.	Macomb
Perdue, Joseph	Hudgens	Roberts, Evan D.	Streator
Perry, D. E.	Colchester	Roberts, David	Orchard Mines
Peters, Benard	Swansea	Roberts, Henry F.	Modena
Peters, M.	Streator	Roddie, Charles	Ipava
Peterson, August	Soperville	Roddie, Wm.	Ipava
Peterson, August	Osceola Twp.	Rodell, Frank	Wataga
Petrie, George	Pekin	Rogers, David	Kickapoo
Phillips, Sebirt	Carbondale	Rohr, Joseph C.	Alexis
Preston, Bryan B.	Cable	Roland, Adolph	Grape Creek
Price, Benjamin	Pinkneyville	Ronk, G. H.	Canton
Pichon, Joseph	Kewanee	Rook, John	Brimfield
Pickett, George	Danville	Roosa, V. L.	Pleasant View
Pistor, William	Millstadt	Rose, James	Equality
Polonius, George	Colchester	Royse, Sylvester	South Danville
Politt, James H.	Canton	Ryan, Phillip	Ashland
Poole, Plummer	Danville	Russell, John R.	Danville
Poore, William	Kickapoo		
Posten, M. W.	Briar Bluff	Sackville, James	Coal Valley
Porter, William H.	Macomb	Sample, John	Laura
		Saunders, W. G.	Monica

## 2 Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
ers, David T.	Peoria	Stroud, William	Marion
, John J.	Peoria	Suggett, William	Breeds
Charles A.	Canton	Summerson, John	Coal Valley
Jesse	Modena	Summerson, Robt.	Coal Valley
n, M. C.	Canton	Swanson, Axel	Cable
er, William	Danville	Swanson, Otto	Cable
dt, August	Millstadt	Swanson, Andrew	Colchester
dt, George	Millstadt	Swenson, John	Danville
dgall, Jno. L.	Murphysboro	Sydall, Peter	North Alton
e, William	Kickapoo	Swafford, William	Duquoin
der, Fred C.	Coal Valley	Swan, Chas. W.	Marion
z, Fred	Braceville	Switzer, James	Astoria
John	Modena	Swisher, Trumont	Danville
Frank	Danville		
k, J.	Monmouth		
Henry	Peoria	Tarpley, W. S.	Marion
dt, Frank	Belleville	Tanner, Anderson	Absher
ar, Michael	Ava	Tattersoll, George	Seneca
, Solomon	Summum	Taylor, James	Belleville
John G.	Danville	Taylor, Robert	Princeville
ne, Abe	Macomb	Taylor, Francis	Blandinsville
tt, James	E. Peoria	Taylor, Jno. S.	Neponset
ler, R. D.	Pekin	Taylor, J. W.	New Burnside
n, W. J.	Cottage Grove	Teague, James	Winchester
erd Wm. A.	Catlin	Teel, James	Industry
William	Chandlerville	Telfer, John K.	Morris
S	Carbon Cliff	Telfer, John W.	Morris
ons, Alfred H.	Roodhouse	Tesdale, Henry	Morris
s, William H.	Monica	Thompson, Jacob	Grape Creek
t, John	Alexis	Thompson, James F.	Ray
on, Charles	Wataga	Thompson, Joseph	Etherly
on, Newton M.	Ray	Thompson, Joe	Grape Creek
on, Joseph	Youngstown	Thomas, William	Streator
r, H. P.	Stonefort	Thomas, James	Danville
nt, James	Centre Station	Thomas, George	Sheffield
Miles B.	Etherly	Thomas, Samuel	Catlin
John	Atkinson	Thurston, John H.	Wyoming
A. J.	Saline Mines	Tilley, Wm.	Duquoin
Geo. W.	Colchester	Todd, Ralph	Kewanee
James	Princeton	Todd, Geo. B.	Catlin
B. F.	Modena	Todd, John	Victoria
John	Frederick	Toney, A.	Grape Creek
Thomas B.	Streator	Tompkins, C. S.	Mineral
Thomas	Ottawa	Tompkins, Harvey	St. David
Charles	Sparland	Towner, L. H.	Bluff City
John	Danville	Treasure, William	Essex
Leonard	Atkinson	Tucker, Charles	Mineral
erger, John	Victoria	Tucker, Edward	East Peoria
ly, Joseph	Streator	Tucker, P. F.	Whitehall
ler, Charles	Danville	Tulk, M. B.	Colchester
s, Charles	Crab Orchard	Tully, P. F.	Brimfield
s, Edgar	Astoria	Turner, John	Lewistown
er, Charles	Victoria	Turner, George	Lewistown
r, Henry	Herrin	Twiney, William A.	Shelbyville
ler, Elmer	Carbondale	Tygett, John	Carbondale
man, Ed.	Brighton	Tyla, H.	Wataga
W. H.	Equality	Tyler, Church	St. David
ir, James A.	Macomb	Tyson, Thomas	Marion
ns, Isaac	Cuba		
s, Joseph	Pekin		
ns, John	Cuba	Underwood, J. H.	Equality
William	Danville		
er, Jacob F.	Arenzville		
Isaac	Colchester	Vandyke, William	Canton
William	Colchester	Varner, Wilson	Marietta
Charles	Colchester	Vaughn, William	Jubilee
Thomas	Carbon Cliff	Vaughn, Elijah	Jubilee
Harry	Toulon	Vaught, John H.	Shawneetown
v, J. E.	Canton	Vezain, George	Ottawa
v, James H.	Norris	Vickery, Henry	Fottstown
l, Charles	Roseville	Vogt, Leon	Shawneetown
n, William	Shelbyville		
inger, Conrad	French Village		
lin, Thomas A.	Marion	Wages, E.	Canton
n, O. F.	Rushville	Waine, James	Atkinson
Ralph	Pleasant View	Wainwright, Arthur	Sweetwater
J. P.	Shawneetown	Wahlburg, Albert	Knoxville

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
McKeown, Frank	Decatur	Postle, John	Braceville
McKernan, Jas	Collinsville	Powell, Albert E	Belleville
McLearn, Archibald	Collinsville	Powell, Evan	Murphysboro
McLaughlin, Wm	Auburn	Powell, David, ex	Braceville
McLaughlin, Wm	Ava	Powell, J. E	Sato
McLaughlin, John	Girard	Powell, Thomas H	Belleville
McLean, Robert	Girard	Powell, Samuel	Roanoke
McManamon, Patrick F	Spring Valley	Price, William	Braceville
McMorrow, Michael	Farmington	Prince, Thomas	Gillespie
McMath, George	Carterville	Proctor, Michael J	Toluca
McMurtie, A. B	Bryden	Prudent, Edward	Centralia
McWhinney, Andrew	Viriden	Pryce, John M	Coal Valley
McMorrow, Thomas	Farmington	Pugh, Daniel	St. John
McNabb, Wm	Athens	Pullen, Charles	Litchfield
		Pullen, James	Sorento
		Pye, William	Bartonville
Neal, Reese	Kangley		
Neal, Albert M	Murphysboro	Raby, Robert A	Cuba
Neal, Wm	Murphysboro	Radford, Thomas, ex	Bloomington
Needles, Thadeus	Glenburn	Radford, William	Cuba
Neeson, Richard	Divernon	Radford, James	Springfield
Neil, Peter, ex	Bunker Hill	Radford, William T	Bloomington
Newcomb, H. C	Pana	Rae, Robert	Braidwood
Newman, Henry T	Springfield	Ramsey, Charles J	Gillespie
Newsam, John	Kingston	Randle, Jesse	Birkner
Newsam, Richard	Orchard Mines	Rarick, Phil. W	Glen Carbon
Newsam, Richard, Jr	Kingston Mines	Ratcliffe, Arthur	Kewanee
Newsam, Thomas	Kingston Mines	Rauth, John	Belleville
Newsam, Thomas, Jr	Kingston Mines	Rasmussen, James E	Mineral
Nesbit, Charles, ex	Millstadt	Rasbottom, Frank	Kingston
Nevenor, John	Belleville	Reagan, Daniel	Muddy Valley
Nevill, George W	Duquoin	Reavley, Robert	Riverton
Nicholson, George A	Cuba	Redyard, John	Odin
Nicholson, Wm	Cuba	Reeb, Phillip	Belleville
Nixon, Robert	Viriden	Reed, W. M	Girard
Noll, Peter	Belleville	Reed, Wm. B	Willaman
Nold, Fred	Freeburg	Reents, August	Kramm
Nordeen, Peter	Galva	Reece, Daniel	Danville
Nordness, C. K	Girard	Reid, Andrew	Springfield
Notman, George	Streator	Reid, Joseph	Marion
		Reilly, Edward	Danville
O'Beirne, John	Spring Valley	Reimann, John	Belleville
O'Brien, John W	Toluca	Rennison, Henry	St. John
O'Brien, John J	Marquette	Reynolds, William	East Peoria
O'Brien, James	Belleville	Reynolds, John	Streator
O'Brine, Patrick J	Spring Valley	Rhodes, Jefferson	Pana
O'Brine, Wm	Pana	Richards, John	Murphysboro
O'Connor, James	Spring Valley	Richardson, Joseph	Litchfield
O'Connor, John	Braidwood	Richardson, Robert	Carterville
O'Connor, Patrick F	Paisley	Ridgley, O. L	Mt. Olive
O'Leary, John	Marquette	Ritchie, Alex., Sr	Clinton
Opie, Wm	Sandoval	Ritchie, A., Jr	Trenton
Owen, Wm	Tallula	Rittmann, J. J	Decatur
Owens, Robert	Marion	Roberts, Benjamin D	Streator
		Roberts, Hiram	Collinsville
Parker, Albert	Collinsville	Roberts, John D., ex	Streator
Passent, Wm. C	Barclay	Roberts, Thomas D	Streator
Patchet, John	Murphysboro	Robinson, Henry	Gardner
Patterson, J. C.	Assumption	Robinson, John T	Kingston Mines
Payne, Harvey	Riverton	Robinson, L. E	Kingston Mines
Pearl, John	Braidwood	Rodden, John	Pana
Penwell, C. T	Pana	Rodenburg, Charles	Belleville
Perrell, Thomas	Norris	Roe, Samuel	Oglesby
Peters, J. D	Murphysboro	Roe, Thomas	Oglesby
Pettier, Moses	Spring Valley	Rogers, Charles	Duquoin
Phillips, James	Minonk	Rogers, Josiah	Braidwood
Pick, Edward	Centralia	Rogers, Llewellen	Braidwood
Pickett, Robert	Spring Valley	Rollo, George	Mt. Olive
Pickett, Joseph	St. David	Rollo, John	Gillespie
Pickett, John W	Farmington	Rollo, William	Pana
Pierson, Robert	Harrisburg	Rookin, Thomas	Edwards Station
Pierce, William	Edinburg	Ross, David	Oglesby
Poelker, Joseph	Germanatown	Rosbottom, James	Kingston Mines
Poel, Edgar E	Murphysboro	Rowland, Charles, ex	Belleville
Potter, George	Mapleton	Rundle, John C	Colchester
		Rundle, William	Pekin

## Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
dge, Walton	Alton	Staehle, August	Belleville
dge, J. J.	Stanton	Stanton, William E., ex	Colchester
James (d)	Springfield	Stearns, James	Hallidayboro
Thomas	N. Springfield	Steiner, Benjamin	Sato
elet, Marshall	Mt. Olive	Steel, Alexander	Streator
rs, John M	Hanna City	Steel, Daniel	Collinsville
m, Henry S., ex	Streator	Steel, James	Spring Valley
, Frederick	Belleville	Steel, Neal	Centralia
, William	Coal City	Stewart, D. G.	Seatonville
il, Joseph	Bartonville	Stirrat, James	Peoria
m, Richard	Belleville	Stockett, Howard N.	Springfield
del, John	Bartonville	Stockett, Lewis	Collinsville
schmidt, Ernst	East Peoria	Stockett, Thos. R., Jr	St. Louis, Mo.
r, William J	Glen Carbon	Stockman, W. H.	Duquoin
ah, Castling R	Braceville	Stoneburner, L. L.	Moweaqua
tian, Charles W	Lenzburg	Storrie, Archibald	Seatonville
, Frederick D	Odin	Stratman, Henry, ex. (d)	Springfield
on, Thomas	Paisley	Straley, Peter	Canton
e, George	St. John	Strebel, George	Edwardsville
, Charles	Danville	Strickland, John	Coal City
ahan, John C.	Gillespie	Stricklin, W. H.	Harrisburg
, James	Peoria	Sutton, Thomas	Millstadt
, Montgomery, ex	Coal City	Swansberg, John L.	Danville
en, R. A.	Galva	Swarthout, J. P.	Peoria
, Joseph	Bartonville	Syson, Frank	Niantic
ds, Frank D	Pana	Tallman, John, ex	Kangley
ler, Charles	Gilchrist	Tattersall, George	Seneca
l, John S.	Pana	Taylor, Charles	Edwards
l, James	Streator	Taylor, Daniel	Edwards
e, John	Edwardsville	Taylor, Henry	Belleville
in, Samuel	Streator	Taylor, James	Edwards
ons, Thomas	Canton	Taylor, Joseph	Springfield
son, Isaac	Glen Carbon	Taylor, Thomas, ex	O'Fallon
son, David	Spring Valley	Taylor, Thomas, ex	Springfield
son, David	Springfield	Tenney, Charles	Danville
son, George A	Springfield	Thain, James	Riverton
son, George C	Springfield	Thom, Alexander, ex	Coal City
son, William J.	Collinsville	Thomas, H.	Westville
son, Thomas	Collinsville	Thomas, J. G.	Spring Valley
s-n, Thomas	O'Fallon	Thomas, John R.	Ladd
Charles A.	Johnson City	Thomas, T. J.	Collinsville
A. J.	Equality	Thomas, Reese	Spaulding
ier, Alexander	Diamond	Thomas, David B.	Murphysboro
ier, David (d)	Diamond	Thomas, Richard	Ridge Prairie
ier, John	Diamond	Thome, Martin, ex	Bartonville
ier, John	Astoria	Thompson, John	DeSoto
on, A. H.	Coal City	Thompson, Robert C.	Murphysboro
l, Edward C	Wesley City	Thompson, Mark	Sherrard
l, James	Middle Grove	Thompson, William	Mt. Olive
hurst, Nathan	Spring Valley	Thornton, James	Duquoin
b, Alexander M.	Sandoval	Thorand, Joseph	Trenton
t, David P.	Dawson	Thrush, David	Farmington
t, Felix	Birkner	Tolle, E. B.	Kingston Mines
b, James	LaSalle	Tregoning, Walter	Murphysboro
b, George A	Sandoval	Twomeley, Edwin, ex	Coal Valley
b, James L.	Mount Olive	Turton, William	Edwardsville
b, James	East Peoria		
b, James L.	Riverton		
b, James P.	Collinsville		
b, Henry W.	Springfield	Ulrich, Casper	Tilden
b, Joseph	Bloomington		
b, T. J.	Pana	Vallow, Charles	Kinmundy
b, William	Athens	Vandebeur, John, ex	Springfield
b, William G.	Riverton	Vandever, P. E.	Taylorville
b, W. H.	Hillsboro	Vicary, William	Pottstown
b, Thomas	Belleville	Vicary, George	Pottstown
b, W. J.	Girard	Vicary, John, ex	Lincoln
don, Richard	Virden	Vose, John	Springfield
don, Alexander	Peoria		
nberger, Harry C.	Dunfermline		
non, John	Springfield	Wagner, I.	Mapleton
nan, Peter H.	Springfield	Walker, John K.	Chenoa
nworth, Andrew P.	Belleville	Wallace, David	Carterville
s, Alfred	Braceville	Walland, Ed. S., ex	Bartonville
ger, Albert R.	Glen Carbon	Walmsley, George	East Peoria

*Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Walschtag, Stephen.....	Peoria	Williams, Wm. H.....	Edinburg
Walsh, Patrick.....	Springfield	Williams, W. W.....	Hornsby
Walsh, Peter P.....	Pleasant Plains	Williams, David Y.....	Herrin
Walters, Wm. H.....	Staunton	Williamson, Wm.....	Staunton
Wanless, Wm. H.....	Riverton	Willson, Hiram E.....	Carbondale
Wantling, T. J.....	Peoria	Wills, Samuel.....	Westville
Wantling, Thomas.....	Pottstown	Wilson, John.....	Coal City
Walters, Thomas W.....	Ladd	Wilson, David.....	Murphysboro
Ward, Wilson.....	Riverton	Wilson, David.....	Spring Valley
Warren, James M.....	Herrin	Wilson, Hugh.....	Kinmundy
Watson, George R.....	Wyoming	Wilson, Alexander.....	Carbon Hill
Watkins, W. J.....	Danville	Wilson, Hiram.....	Carbondale
Watts, Thomas J.....	Elmwood	Wilson, H. C.....	Pekin
Watts, William.....	Elmwood	Wilson, John B.....	Sparta
Weber, Henry.....	Murphysboro	Wilson, John J.....	Wesley City
Webster, Richard.....	Collinsville	Wilson, Robert.....	Roaroke
Weeks, Thomas.....	Streator	Wilson, William.....	Middle Grove
Weisenborn, F. E.....	Mt. Olive	Wilson, Thomas.....	Norris
Wenneborg, Otto.....	Springfield	Wilson, Wm.....	Sparta
Westwater, David.....	Pekin	Wilson, W. R.....	Reed City
Westwood, Albert.....	Belleville	Winneberg, W.....	Springfield
Westwood, John.....	Streator	Winning, James.....	Cartersville
Westwood, Thomas.....	Belleville	Winning, Robert.....	Cartersville
Wheatcraft, James.....	Elmwood	Winterbottom, John.....	Murphysboro
Whennen, Charles.....	Oglesby	Winters, Samuel P.....	Bartonville
Whitaker, John.....	Collinsville	Wittman, Daniel.....	New Baden
Whitaker, Wm. J.....	Collinsville	Walschlag, Stephen, ex	Peoria
White, John R.....	Belleville	Wood, Henry.....	Streator
White, Michael.....	Virden	Woods, William, ex	Morris
White, Owen.....	Seatonville	Worthington, Willard	Duquoin
Whitehead, Joseph.....	Farmington	Wright, John.....	Belleville
Wild, James.....	Murphysboro	Wright, J. W.....	Kingston Mines
Wiley, Robertson.....	St. David		
Wilkinson, Frank.....	Westville	Yates, John.....	Belleville
Wilkinson, T. H.....	Diamond	Young, Hiram.....	Girard
Williams, James.....	Murphysboro	Young, Hugh G.....	Braidwood
Williams, Jeff.....	Farmington		
Williams, John.....	Riverton	Zink, Peter A.....	Belleville
Williams, Louis.....	Belleville	Zoller, Robert H.....	Braidwood
Williams, Robert H.....	Girard		
Williams, Walter.....	Duquoin		

## MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro	Collier, Frank J.....	Bartonville
Alsopp, William H.....	New Castle	Cooper, Charles.....	Nilwood
Andreas, August.....	Belleville	Coster, George.....	Grape Creek
Angel, Hiram.....	Glenn	Crawson, Elhu.....	O'Fallon
Atkinson, Edward.....	Streator	Cummings, William.....	Rushville
Axford, Thomas.....	Petersburg	Cusack, M.....	Edwards
Bailey, Robert.....	Sunfield	Dale, John.....	Fredonia
Bangart, Henry (d).....	Lincoln	Davenport, John.....	Harrisburg
Bartlett, Thomas.....	Cuba	Davis, Caleb.....	Collinsville
Barwell, John.....	Cntler	Davison, Matthew.....	DuQuoin
Bates, W. H.....	Winchester	Deans, Henry.....	Percy
Betz, Charles C.....	Duquoin	Donaly, James.....	Cartersville
Bolander, John.....	Pekin	Duffner, J. W.....	Belleville
Bracken, James A.....	Greenview		
Brown, Jabez.....	Cutler	Enstminger, Emanuel E.....	Crab Orchard
Brown, Thomas M.....	Pinkneyville	Entwhistle, Robert.....	Colchester
Bunting, J. H.....	Grape Creek	Erwin, William.....	West Belleville
Bushong, Andrew M.....	Danville		
Caldwell, James.....	Elmwood	Fagan, Patrick.....	Decatur
Cameron, Duncan S.....	Sorento	Fletcher, Adam.....	Ladd
Cape, Thomas.....	Fairview	Forsythe, Peter.....	Centralla
Chere, George.....	Pleasant Plains	Forsythe, Thomas.....	Centralla
Christie, David.....	Murphysboro	Fowler, Henry.....	Millersburg

## Certificate of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Bernard.....	Lincoln.....	McDonald, Daniel.....	Menard.....
Edward.....	Niantic.....	McDowell, James A.....	Grape Creek.....
John.....	Peoria.....	McKernan, James.....	Collinsville.....
Nm.....	Cuba.....	Neal, William.....	Murphysboro.....
George.....	Springfield.....	Nicholson, William.....	Cuba.....
Henry.....	Orchard Mines.....	Noyd, Lewis.....	Galva.....
Ivid.....	Pekin.....	Oexner, Wendelin.....	West Belleville.....
in (d).....	Roanoke.....	Parkin, William.....	Sweetwater.....
bert.....	Springfield.....	Patterson, J. C.....	Assumption.....
d, Robert.....	Duquoin.....	Pearl, John.....	Braidwood.....
eter.....	Collinsville.....	Pfander, Fred.....	Peoria.....
William A.....	Colona.....	Pickett, Robert.....	Canton.....
Robert.....	Cable.....	Pool, Edgar E.....	Murphysboro.....
Daniel.....	Lenzburg.....	Price, David.....	Fairbury.....
Ernest.....	Streator.....	Price, James L.....	Danville.....
John L.....	LaSalle.....	Pullen, Charles.....	Sorento.....
William.....	Streator.....	Radford, William.....	Cuba.....
nes.....	Braidwood.....	Randle, Jessie.....	Birkner.....
James.....	Tallula.....	Reynolds, William.....	East Peoria.....
yer, Julius.....	Golden Eagle.....	Royster, Moses L.....	Peoria.....
Eugene.....	Bartonville.....	Rusche, Christian (d).....	East Peoria.....
Wm. M.....	Duquoin.....	Ryan, James.....	Springfield.....
Ivid.....	Marissa.....	Schmidt, Frank P.....	Limestone.....
George, Jr.....	Bartonville.....	Shaw, Nathan.....	Kramm.....
Andrew.....	Wenona.....	Smith, David P.....	Dawson.....
Eugene.....	Ridge Prairie.....	Smith, Felix.....	Breese.....
Bernard.....	Kewanee.....	Solomon, Robert.....	Springfield.....
hagen, Henry.....	Belleville.....	Spencer, George.....	Duquoin.....
Anthony F.....	Sato.....	Stanway, George.....	Blair.....
tus, Philip H.....	Tamaroa.....	Stark, Andrew.....	Galva.....
Charles.....	Belleville.....	Stewart, David J.....	Seatonville.....
Iosea W.....	Sheffield.....	Stuhlsatz, Michael.....	Kewanee.....
Mark, Jr.....	Sato.....	Sutton, Thomas.....	Millstadt.....
Robert.....	Belleville.....	Swan, Charles.....	Oakwood.....
Patrick.....	Breeds.....	Swisher, James E.....	St. David.....
Peter.....	Williamsville.....	Teifer, Alexander W.....	Morris.....
l, C. W.....	Augusta.....	Terrill, Thomas.....	Colchester.....
Lewis.....	Belleville.....	Thompson, John.....	DeSoto.....
Nicholas.....	Lebanon.....	Thornton, James.....	Duquoin.....
William.....	Lenzburg.....	Waugh, George, Sr.....	Peoria.....
ohn.....	Norris.....	Westwood, Thomas.....	Belleville.....
Thomas.....	Collinsville.....	Wilkin, John B.....	Petersburg.....
Thomas.....	Percy.....	Williams, John.....	Sato.....
in, Edward.....	Carbon Hill.....	Williams, John T.....	Coalville.....
eremiah.....	Danville.....	Williams, Walter.....	Duquoin.....
Robert.....	Virginia.....	Wilms, William.....	Springfield.....
John.....	Braidwood.....		
James.....	Kangley.....		

MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES  
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
J.....	Laura.....	Ahlgren, Emil.....	Kewanee.....
J. M.....	Denmark.....	Alexander, Orie A.....	Huntsville.....
John.....	Danville.....	Allen, James T.....	Pleasant View.....
William R.....	Danville.....	Allen, W. P.....	Spillerton.....
W. M.....	Geneseo.....	Allison, John.....	Loding.....

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Allison, Elmer	Danville	Boostrom, Ben B	Wataga
Anderson, Alexander	Sato	Ronnett, A. H	Pilot
Anderson, Le A	Streator	Bowman, G. W	Yates City
Anderson, N. C	Ottawa	Bowman, T. L	Industry
Anderson, Josh	Equality	Boyer, A. P	Etherly
Anderson, M. H.	Knoxville	Brackhouse, Fred	Chapin
Anna, Charles	Wataga	Braunaman, F. L	Danville
Argus, Leonard	Belleville	Brandt, Jean	Georgetown
Arrandale, Jno. W	Streator	Brandt, Henry C	Petersburg
Ascraft, J. W	Mayton	Brandt, William	Mineral
Aston, Emanuel	Danville	Brannon, James	Grape Creek
Atkinson, Amos	Colchester	Brennan, George	Caseyville
Atkinson, M.	Kewanee	Brinley, Ross	Danville
Atkinson, Chas. W	Colchester	Broderick, Andrew	Danville
Auglin, John	Shelbyville	Brophy, M.	Shelbyville
Avery, Geo. W	Industry	Brown, John	Ottawa
Axley, Edward	Roodhouse	Brown, S. C	Lewistown
		Brooker, Fred	Lowell
Backling, William	East Peoria	Bryan, John	Grape Creek
Backofen, Jacob	Littleton	Bryant, S. C	Grape Creek
Bailey, Oliver	Carbondale	Bryner, Leonidos	Roseville
Baird, W. C	Carbondale	Buchanan, H. M	Streator
Baird, Oswald	Colchester	Bullock, Joseph	Collinsville
Baker, L. C	Oakwood	Bullock, Robt	Duquoin
Baker, William H	Industry	Bunt, Joseph	Colchester
Baker, Joseph	Ottawa	Bunting, C. J	Danville
Baker, F. W	Fairbury	Hurdick, Frank	Industry
Baker, Wm. J	St. David	Burk, W. W	Conant
Bales, Joseph L	Danville	Burney, Ralph	Colchester
Balmar, Jno. D	Bartonville	Butter, William	Stonefort
Ball, Samuel	North Alton	Byrnes, John	Brighton
Banney, H. E	Abingdon		
Barber, William	Colchester	Cagle, William	Frederick
Bargreen, Charles	Streator	Cagle, John	Littleton
Barnett, W. M.	Palzo	Cagdall, A. C	Stonefort
Barter, Charles	Bryant	Caldwell, Thomas	Avon
Bass, Oscar J	Wyoming	Camey, Robt. P	Lombardville
Bates, Geo. H	Kewanee	Campbell, Ed	White Hall
Bates, Watson	Rushville	Campbell, Andrew F	Roseville
Bath, Isaac	Lewistown	Campbell, Francis A	Viola
Bath, Abraham	St. David	Campbell, W. R	Vergennes
Baugh, William	Henry	Cameron, Henry	Viola
Beatty, John T	Mascoutah	Carlson, Alfred	Sunny Hill
Beatty, John T	Mascoutah	Carlson, Andrew F	Kewanee
Becroft, Leonard	Atkinson	Carroll, C. E	Duncan
Bectler, John	Pekin	Carroll, Thos. J	Bunker Hill
Beddow, Benj	Danville	Carrel, A. J	Duquoin
Beers, M. A	Cable	Carter, Elmer	Camden
Beever, J. H	Farmington	Carter, Joe	Kewanee
Begum, Geo. E	Ottawa	Carter, F. R	Danville
Bell, James	Morris	Carter, Wm. B	Danville
Bell, Charles	Pleasant View	Carson, Charles H	Fiatt
Beltz, Lindolph	Cartersville	Carrison, George	Colchester
Belz, George	Cartersville	Casteter, John	Streator
Bennet, Fred	Chillicothe	Casteter, William	Newton
Benson, William	Winchester	Catt, A. G	West Jersey
Berry, John	Macomb	Catton, John	West Jersey
Berry, Charles	Monica	Catton, C. F	Oak Hill
Berry, W. J	Macomb	Chadwick, E	Fosterburg
Berry, R. M	Cottage Grove	Charlingsworth, Amos C	Wyoming
Berry, Wm	Monica	Charlson, Chas	Victoria
Beuer, Jacob W	Castletown	Charnok, Wm	Ava
Beuer, Joseph	Castletown	Chesney, Alonzo T	Kewanee
Bexton, William G	Colchester	Chilton, Richard	Canton
Biggs, Henry	Ledford	Chipping, W	French Village
Bird, Daniel	Roseville	Chorlton, James	Sparland
Birdois, D	Peoria	Christman, Charles W	Equality
Birdois, John	Peoria	Clark, James A	Equality
Blackburn, Kelly	Johnson City	Clark, J. H	Brimfield
Blagden, Richard	Leaman	Clarkson, William H	Edwards
Blakey, Cuthbert	Wyoming	Clarkson, Lorenzo	Kickapoo
Blessing, George	East Peoria	Clifford, Geo. L	Onedia
Blockley, Rufus	Equality	Cody, Richard	Peoria
Blotvagal, William	Worden	Coespire, G	Galesburg
Blue, J. W	Grape Creek	Colburn, John K	Vanhook
Blue, Ed	Grape Creek	Collins, Thomas	Collinsville
Bode, W. H. H.	Chesterfield	Collins, A. Y	Greenfield
Boden, Ed	Pre-emption	Collins, W. N	Ava
Boldwyn, T. W	Vergennes		

*Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Robert	Brimfield	Durham, Simon	Canton
George	Duncan	Dunsford, Charles	Absher
Lewis M	Wyoming		
Charles	Oakwood	Ebel, August	Belleville
Charles K.	Grape Creek	Eccles, Frank	North Alton
H.	Etherly	Edison, James	Ottawa
Charles B.	Alexis	Edwall, C. W.	Galva
Albert W.	Etherly	Edwards, Thomas	Streator
V. P.	Peoria	Edwards, T. J.	Crab Orchard
W.	Petersburg	Edwards, Geo.	Huntsville
Foster	Pinkneyville	Edward, David L.	Coal Valley
Ellie	Kewanee	Edwards, A. G.	New Burnside
George	Wyoming	Edwards, John	Danville
John H.	Ava	Edwards, A. B.	Kewanee
John	Colchester	Elker, Geo. L.	Knoxville
John	Morris	Elliott, James	Caseyville
John	Chillicothe	Ellis, Ross M.	Danville
John	Stonefort	Emerick, Alonzo	Farmington
John	Ava	Ennis, James	Peoria
John	Pleasant View	Ensininger, E. E.	Crab Orchard
John	Pleasant View	Entwistle, W.	Colchester
John	Etherly	Erhardt, Anton	Belleville
John	Union	Erikson, August	Galva
John	Danville	Ernst, Frank	St. Johns
John	Cutler	Espley, J. T.	Morris
John	Rushville	Essex, G. W.	Soperville
John	Rockbridge	Evans, Ed E.	Streator
John	Princeville	Evans, Lewis	Kangley
		Evans, W. L.	Cottage Grove
		Eynman, Albert	Lewistown
Joseph	Danville		
Joseph	St. David	Fairley, John	Cambridge
Joseph	Yates City	Farrell, Hugh	Monica
Joseph	Danville	Faust, Jacob	Pinckneyville
Joseph	Blandinsville	Fenwick, Geo. A.	Danville
Joseph	Table Grove	Filker, George	Farmington
Joseph	Abingdon	Fink, Frank	Truro
Joseph	Streator	Fish, William	Appleton
Joseph	Fayette	Fisher, W.	Murrayville
Joseph	Salisbury	Fisher, Alcide	Brighton
Joseph	Griffin	Flemming, Thomas	Morris
Joseph	Colchester	Flynn, William	Briar Bluff
Joseph	Yates City	Foley, William H.	Mapleton
Joseph	Deer Park Glen	Forester, W. M.	Equality
Joseph	Middletown	Foster, Geo. W.	Colchester
Joseph	Orchard Mines	Foster, Thurman	Carbondale
Joseph	Avon	Fox, Thomas	Lewistown
Joseph	Equality	Francis, Wm G.	Streator
Joseph	Equality	Francis, C. W.	Catlin
Joseph	Victoria	Fredrickson, Andrew	Danville
Joseph	Wyoming	French, Strawther	Bradford
Joseph	Petersburg	Frisby, E. O.	Sparland
Joseph	Morris	Frisby, W. E.	Sparland
Joseph	Colchester	Frost, Michael	Danville
Joseph	Freeburg	Fry, John	Ray
Joseph	New Burnside	Fuller, James K.	Modena
Joseph	Princeville		
Joseph	Kewanee	Gaddis, Ed	Hudgens
Joseph	Pre-emption	Gallagher, W. F.	Mode
Joseph	Lafayette	Gallraith, Zacharias	Morris
Joseph	East Peoria	Gainey, Thomas	Carbon Cliff
Joseph	Wataga	Garland, Samuel	Kewanee
Joseph	Green River	Gary, George	Ray
Joseph	Truro	Geisler, Henry	Brighton
Joseph	Pre-emption	Gedelman, E. F.	Freeburg
Joseph	Campbell Hill	Gensol, Joseph	Lewistown
Joseph	Danville	Giebelhausen, Gus E.	Peoria
Joseph	St. David	Gergens, Martin	Pinckneyville
Joseph	Canton	Gerlach, Geo. F.	Sparta
Joseph	Vandercook	Gilbride, Frank	Morris
Joseph	Danville	Gilderoy, W. W.	Monmouth
Joseph	Knoxville	Gillette, Charles	Elmira
Joseph	Kewanee	Gillis, Neal M.	Winchester
Joseph	Tennessee	Gillis, Fred F.	Danville
Joseph	Sheffield		
Joseph	Oscola		
Joseph	Brimfield		



*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Gilligan, Jackson	Industry	Hinderer, Frank	Frederick
Glenn, Jethn	Briar Bluff	Hoar, William	Colchester
Goble, Frank M.	Industry	Hodge, S. M.	Danville
Golden, James	Kewanee	Hodge, John W.	Rushville
Golden, Richard	Kewanee	Hodge, Benjamin A.	Danville
Goode, Joseph	Lombardville	Hodgett, Absalom	Kewanee
Goudy, W. S.	Brimfield	Hodgson, Wm	Colchester
Grant, August	Kewanee	Hogercamp, Walter	Pontiac
Greear, William	Coal Valley	Hohimer, Harry	Petersburg
Green, Samuel J.	Colchester	Holley, Wm. G.	Wyoming
Green, Clarence	Sparland	Horrocks, Benj	Henry
Green, Milton	Keithsburg	Houseman, Fred	Fosterburg
Grice, Albert	Kewanee	Howard, Charles	Modena
Griffiths, Edward	Roodhouse	Howe, Wm	Streator
Griffiths, Thomas W.	White Hall	Huber, W. H.	Lewistown
Griffiths, D.	Caseyville	Hughes, John	Petersburg
Griffiths, James	Grape Creek	Hudson, Samuel	White Hall
Griffiths, Joseph F.	Moline	Humes, Michael	Colchester
Griggs, Allison	Brimfield	Hurst, John	Belleville
Grim, David, Jr.	Victoria	Hurst, Lot	Bartonville
Grossman, Louis	Smithton	Isackson, Martin	Wataga
Grosweiler, Joseph, Jr.	Pekin	Isaacson, P. O.	Wataga
Groth, John	Carbon Cliff	Ingram, Robert H.	Sparland
Groy, Max	Kewanee	Ingram, J. S.	Harrisburg
Guckert, P. P.	Hampton	Irwin, James	Green River
Gunnett, A. J.	Fairview	Irwin, Fred	Smithton
Gurten, Louis	Pinckneyville	Ivans, W. A.	Cottage Grove
Guy, Thomas	Colchester		
		Jacobs, John	Wataga
Haiding, James A.	Wyoming	Jacobs, Claude	Danville
Hall, John	Colchester	Jacquot, Augustare	Danville
Hall, John	Grape Creek	Jack, John	Marion
Hall, Charles	Dunfermline	Jamieson, E. J.	Loding
Hall, Geo. W.	Newton	Jamieson, Guy	Loding
Hamilton, John W.	Frederick	Jarrell, Miles	Cottage Grove
Hamilton, John	Cuba	Jayne, Richard	Cuba
Hamilton, Gail G.	Frederick	Jenkins, D. A.	Danville
Hammett, Otho J.	Chillicothe	Jenner, A. T.	Pinckneyville
Handly, John L.	Coal Valley	Johnson, C. E.	Canton
Hanmann, Wm	Okawville	Johnson, Cornelius F.	Middletown
Harbaugh, Geo. W.	Chesterfield	Johnson, J.	Farmington
Harnisch, Ernest	Brighton	Johnson, Benjamin	Smithboro
Harrington, Frank	Farmington	Johnson, J. E.	Dunfermline
Harrington, D.	Danville	Jones, W. L.	Bradford
Harris, A. J.	Tilton	Jones, C. S.	Sato
Harris, Oliver	Canton	Jones, W. W.	Bradford
Harris, Hardy	Catin	Jones, A. J.	Peoria
Hartman, John	Peoria	Jones, A. H.	Colchester
Harvey, John	Murphysboro	Jones, James H.	Streator
Haskins, Alfred	Grape Creek	Jones, John L.	Peoria
Havens, Bert	Truro	Jones, Jackson	Winchester
Haves, C. G.	Kewanee	Jones, W. H.	Catin
Heathcock, George	Princeton	Jones, Wm. J.	Kewanee
Heather, James	Morris	Jones, Evan A.	Cotlin
Heintz, A. F.	Kickapoo	Jones, Arthur	Viola
Hendee, Isaac	Bernadotte	Jones, Thomas	Peoria
Henry, Samuel	Danville	Jones, Andrew	Winchester
Henson, John F.	Denmark	Joos, Conrad	Peoria
Hennemann, Charles	Belleville	Jordan, Will.	St. David
Herman, John	Oraville	Jordan, John L.	Trivoli
Herman, John	Kewanee	Jordan, E. S.	Newton
Herkstrom, E.	Victoria	Joubost, George	Grayville
Herrington, Thomas	Princeton	Jourdan, Wm. L.	Smithton
Herseman, Herman	East Peoria		
Hewitt, William B.	Chenoa	Kabel, Herman	Moro
Hews, W. B.	Canton	Kavanaugh, J. A.	Colchester
Hibberd, Lewis W.	Peoria	Kay, James	Atkinson
Hickson, David	Ottawa	Kay, William H.	Morris
Hicks, Wm. E.	Crab Orchard	Kay, Bert	Atkinson
Hickman, Willis	Frederick	Kay, Robert	Briar Bluff
Higbee, Lawrence	Princeville	Kay, Wm. G.	Atkinson
Hissong, Charles	Tilden	Kelly, Thomas	Grape Creek
Hibbard, Geo. A.	Limestone	Kear, George G.	Sparland
Hillard, E.	Colchester	Kearney, John	Shelbyville
Hillier, Walter T.	Carbondale	Keel, W. L.	Stonefort
Hind, Robert	Salisbury		

*Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
A. G. ....	Friendsville	Martin, Geo. ....	Kewanee
A. Henry ....	Kewanee	Marriage, Joseph .....	Grape Creek
William ....	Rushville	Marxer, Joseph .....	Milstadt
A. J. W. ....	Briar Bluff	Marley, Richard .....	Atkinson
.....	Roseville	Marshall, G. A. ....	Cuba
n, Wm. C. ....	Shawneetown	Marshall, J. C. ....	Caseyville
mbrose L. ....	Victoria	Mason, Frank A. ....	Carbondale
..... Wm. T. ....	New Burnside	Massey, Jesse .....	Streator
Joseph .....	Pekin	Matsinger, Theodore .....	Crab Orchard
Henry R. ....	Campbell Hill	Mauck, Joseph .....	Danville
.....	Wyoming	Mauck, L. F. ....	Danville
on, Paris .....	Equality	Medearis, Jas. ....	Henry
Oscar .....	Streator	Meiker, B. F. ....	Danville
..... William .....	Colchester	Melvin, Leo .....	Kewanee
fus, Emil .....	Belleville	Melvin, R. ....	Kewanee
John .....	Roodhouse	Mellegram, John .....	Petersburg
n, Fred .....	Rapid City	Meller, Louis .....	Brighton
np, A. ....	North Alton	Memmer, L. ....	Canton
.....	.....	Mercy, Geo. ....	St. David
David .....	Monica	Merron, G. W. ....	Crab Orchard
Edwin .....	Kewanee	Merrill, R. M. ....	Campbell Hill
t, Austin H. ....	Keensburg	Mescher, W. T. ....	LaHarpe
ames .....	Peoria	Mertz, Wm. M. ....	Ottawa
Richard .....	Colchester	Miffs, Henry .....	New Douglas
Nick .....	Pinckneyville	Miller, George A. ....	Danville
John .....	Grape Creek	Miller, Silas .....	Grape Creek
omas .....	Youngstown	Miller, Eliza .....	Grape Creek
nes .....	Alexis	Miller, Smith .....	Mapleton
Charles W. ....	Cable	Miller, L. S. ....	Grape Creek
ist, O. W. ....	Equality	Miller, George A. ....	Danville
Charles W. ....	Galesburg	Miller, C. G. ....	Youngstown
Charles E. ....	Cambridge	Mitchell, Robert T. ....	Prairietown
Thomas .....	Cartersville	Mobaker, John .....	Danville
ice, B. ....	Youngstown	Molloy, John .....	North Alton
Alfred .....	Cable	Monroe, Archie .....	Carriers Mills
E. ....	Kewanee	Montooth, Chas. ....	Bradford
P. ....	Canton	Moorman, Mark .....	Illinois City
ugust .....	Danville	Morrison, Alva .....	Modena
ck, P. ....	Wataga	Moore, John K. ....	Orian
L. ....	Grape Creek	Moore, Nanly .....	Saline Mines
elter, J. R. ....	Canton	Moore, W. F. ....	Victoria
George .....	Roseville	Moore, Sim J. ....	Cottage Grove
ohn T. ....	Roodhouse	Moran, Michael F. ....	Sheffield
H. ....	Roodhouse	Morrison, D. D. ....	Danville
ld, Joseph .....	Brimfield	Morris, Geo. J. ....	Millersburg
yn, Edw. ....	Danville	Morgan, Charles .....	Oneida
Elisha .....	Danville	Mordue, Geo. ....	Colchester
Benj. F. ....	Danville	Mosher, Charles .....	Etherly
D. E. ....	Danville	Moss, Oliver .....	Vergennes
e, David L. ....	Lewistown	Morton, T. J. ....	Danville
g, E. ....	Loding	Mowbray, Jno. ....	Atkinson
J. B. ....	Chesterfield	Muir, George .....	Victoria
mes .....	Galva	Munts, Wm. ....	Streator
Samuel .....	Lewistown	Mulvany, Chris. ....	Farmington
O. ....	Atkinson	Murphy, Fred .....	Belleville
z, Edward J. ....	Fosterburg	Murphy, Led. ....	Monmouth
z, Lewis .....	Brighton	Murphy, Chas. H. ....	Canton
z, Chas. H. ....	Brighton	Murcheson, Kenneth .....	Kewanee
ord, John H. ....	Bunker Hill	Murray, Samuel .....	Monmouth
Maxwell .....	Coal Valley	Mustard, Elijah .....	Canton
.....	.....	Muzzy, William H. ....	Peoria
William .....	Fairview	Myers, W. H. ....	Carbondale
G. W. ....	Ray	Myers, Geo. ....	Ottawa
Harry .....	Duquoin	Myers, Perry .....	Bethalto
ren, James W. ....	Petersburg	Myers, Chas. ....	LaHarpe
Richard .....	Rock Island	McAnnally, Jno. ....	North Alton
William, Sr. ....	Colchester	McCartney, C. T. ....	Alexis
G. W. ....	Laoc	McDaniel, Chas. C. ....	Wyoming
J. B. ....	Laoc	McClure, Marion .....	Colchester
J. W. ....	Farmington	McCullough, Jas. ....	Ottawa
Fred .....	Peoria	McDonald, Samuel .....	Moro
John H. ....	Canton	McElwee, Charles P. ....	Winchester
Patrick .....	Peoria	McGovern, T. B. ....	Oneida
William Jr. ....	Colchester	McGovern, S. ....	Oneida
David A. ....	Canton	McGuire, John .....	Aisey
.....	.....	McGuire, Patrick .....	Winchester
.....	.....	McIntire, Geo. ....	Industry

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
McKahan, Samuel R.	Alexis	Porritt, Thomas	Carterville
McKane, R.	Galva	Portwood, James	Lewistown
McKeen, William H.	Danville	Potter, L.	Mapletown
McKiney, Charles	Cottage Grove	Powers, James	New Burnside
McLain, William H.	Equality	Presson, J. A.	Carbondale
McLaughlin, Joseph	R. F. D., No. 5	Price, John	Wyoming
McMichael, T. M.	New Burnside	Proctor, Christopher	Elmwood
McMillin, William J.	Streator	Pugh, Geo. J.	Ava
McNaught, Henry	Williamsfield	Putnam, Jonah S.	Danville
McNeil, William	Griffin	Pyle, Joseph F.	Kewanee
Nee, John J.	Colchester	Raddlebeck, Joseph	Brimfield
Nelson, James	Knoxville	Raffee, Robert	Farmington
Nelson, Louis	Streator	Rains, Charles	Oraville
Nelson, Nels	Ottawa	Rand, John	Bryant
Nelson, John S.	Morris	Rands, Thomas	Chesterfield
Nelson, Chris.	Chandlerville	Ratliffe, Arthur	Neponset
Nenneker, Andy	Bushnell	Ratley, Charles	Cypress Junction
Nenneker, Fred	Bushnell	Ray, A. B.	Catlin
Neville, Wm.	Catlin	Ratley, James E.	Equality
Newell, J.	Sparland	Ray, William	Danville
Newton, F. B.	Modena	Rayborn, George	Winchester
Newton, Geo. H.	Toulon	Reed, William	Soperville
Newton, Ben F.	Bradford	Rennick, William C.	Modena
Nibbelin, John	Elwood	Reed, W. B.	Wilsman
Nighswonger, Asa	Sparland	Reed, John	Herrin
Nodeon, E. W.	Wataga	Reib, Conrad	Belleville
Norris, Floyd	Duquoin	Reid, J. Thomas	Salline Mines
Nozley, Alfred	Golden	Reinhardt, Frank	Wataga
Nyde, John E.	Galva	Reiff, Jacob	Kewanee
		Reeves, John	Hudgens
O'Daniel, Arthur	Danville	Revis, J. H.	Roodhouse
Oldham, Ralph	Colchester	Reynolds, James	Colchester
Odum, D. B.	Carriers Mills	Renshaw, John	Eden
Owens, Orby G.	Stonefort	Reese, Lemuel	Streator
		Rhoades, Benjamin	Shelbyville
Pahlman, H.	Bluffs	Ribley, R.	Cuba
Parker, William	Milan	Richardson, John	Shelbyville
Parker, W. G.	Winchester	Richardson, William	Moro
Parle, Sylvester	Danville	Richards, Thomas	Ottawa
Parr, Joseph	Princeville	Rich, John C.	Carbondale
Parthan, M.	Sato	Richard, George	French Village
Paul, John	Sheffield	Riegels, Adolph	Golden Eagle
Payne, Charles C.	St. John	Riley, J. R.	Breeds
Pearson, William M.	Astoria	Riley, Michael	Braidwood
Pearson, John	Colchester	Riley, Cyrus W.	Mineral
Peck, E. E.	Canton	Riley, Elerof	Atkinson
Pendergast, John	Soperville	Ringer, Benjamin	Morris
Penman, James	Streator	Robbins, J. W.	Glasford
Penman, William	Preemption	Robinson, Benjamin	Wyoming
Penn, George	Belleville	Robinson, William	Colchester
Penn, Henry	Brimfield	Robinson, J. M.	Elmira
Perkins, John E.	Osceola	Robinson, John W.	Wyoming
Perkins, J. B.	Ray	Robinson, Robert	Wyoming
Perdue, Joseph	Hudgens	Robinson, Wm. H.	Macomb
Perry, D. E.	Colchester	Roberts, Evan D.	Streator
Peters, Benard	Swansea	Roberts, David	Orchard Mines
Peters, M.	Streator	Roberts, Henry F.	Modena
Peterson, August	Soperville	Roddie, Charles	Ipava
Petrie, George	Osceola Twp.	Roddie, Wm.	Ipava
Phillips, Seibert	Carbondale	Rodell, Frank	Wataga
Preston, Bryan B.	Cable	Rogers, David	Kickapoo
Price, Benjamin	Pinkneyville	Rohr, Joseph C.	Alexis
Pichon, Joseph	Danville	Roland, Adolph	Grape Creek
Pickett, George	Danville	Ronk, G. H.	Canton
Pistor, William	Millstadt	Rook, John	Brimfield
Polonius, George	Colchester	Roosa, V. L.	Pleasant View
Politt, James H.	Canton	Rose, James	Equality
Poole, Plummer	Danville	Koyse, Sylvester	South Danville
Poore, William	Kickapoo	Ryan, Phillip	Ashland
Posten, M. W.	Briar Bluff	Russell, John R.	Danville
Porter, William H.	Macomb	Sackville, James	Coal Valley
		Sample, John	Laura
		Saunders, W. G.	Monica

## Managers (Ten Men), Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
ers, David T.	Peoria	Stroud, William	Marion
John J.	Peoria	Suggett, William	Breeds
Charles A.	Canton	Summerson, John	Coal Valley
Jesse	Modena	Summerson, Robt.	Coal Valley
n, M. C.	Canton	Swanson, Axel	Cable
er, William	Danville	Swanson, Otto	Cable
dt, August	Millstadt	Swanson, Andrew	Colchester
dt, George	Millstadt	Swenson, John	Danville
dgall, Jno. L.	Murphysboro	Sydall, Peter	North Alton
e, William	Kickapoo	Swafford, William	Duquoin
der, Fred C.	Coal Valley	Swan, Chas. W.	Marion
z, Fred	Braceville	Switzer, James	Astoria
John	Modena	Swisher, Trumont	Danville
Frank	Danville		
k, J.	Monmouth		
Henry	Peoria	Tarpley, W. S.	Marion
it, Frank	Belleville	Tanner, Anderson	Absher
ar, Michael	Ava	Tattersoll, George	Seneca
Solomon	Summum	Taylor, James	Belleville
John G.	Danville	Taylor, Robert	Princeville
ne, Abe	Macomb	Taylor, Francis	Blandinsville
tt, James	E. Peoria	Taylor, Jno. S.	Neponset
er, R. D.	Pekin	Taylor, J. W.	New Burnside
n, W. J.	Cottage Grove	Teague, James	Winchester
erd Wm. A.	Catlin	Teel, James	Industry
William	Chandlerville	Telfer, John K.	Morris
S	Carbon Cliff	Telfer, John W.	Morris
ons, Alfred H.	Roodhouse	Tesdale, Henry	Morris
s, William H.	Monica	Thompson, Jacob	Grape Creek
t, John	Alexis	Thompson, James F.	Ray
on, Charles	Wataga	Thompson, Joseph	Etherly
on, Newton M.	Ray	Thompson, Joe	Grape Creek
on, Joseph	Youngstown	Thomas, William	Streator
f, H. P.	Stonefort	Thomas, James	Danville
it, James	Centre Station	Thomas, George	Sheffield
Miles B.	ktherly	Thomas, Samuel	Catlin
John	Atkinson	Thurston, John H.	Wyoming
A. J.	Saline Mines	Tilley, Wm	Duquoin
Geo. W.	Colchester	Todd, Ralph	Kewanee
James	Princeton	Todd, Geo. B.	Catlin
B. F.	Modena	Todd, John	Victoria
John	Frederick	Toney, A.	Grape Creek
Thomas B.	Streator	Tompkins, C. S.	Mineral
Thomas	Ottawa	Tompkins, Harvey	St. David
Charles	Sparland	Towner, L. H.	Bluff City
John	Danville	Treasure, William	Essex
Leonard	Atkinson	Tucker, Charles	Mineral
erger, John	Victoria	Tucker, Edward	East Peoria
ly, Joseph	Streator	Tucker, P. F.	Whitehall
ler, Charles	Danville	Tulk, M. B.	Colchester
i, Charles	Crab Orchard	Tully, P. F.	Brimfield
i, Edgar	Astoria	Turner, John	Lewistown
er, Charles	Victoria	Turner, George	Lewistown
i, Henry	Herrin	Twiney, William A.	Shelbyville
ler, Elmer	Carbondale	Tygett, John	Carbondale
man, Ed.	Brighton	Tyla, H.	Wataga
W. H.	Equality	Tyler, Church	St. David
ir, James A.	Macomb	Tyson, Thomas	Marion
ns, Isaac	Cuba		
Joseph	Pekin		
is, John	Cuba	Underwood, J. H.	Equality
William	Danville		
r, Jacob F.	Arenzville		
Isaac	Colchester	Vandyke, William	Canton
William	Colchester	Varner, Wilson	Marietta
Charles	Colchester	Vaughn, Willam	Jubilee
Thomas	Carbon Cliff	Vaughn, Elijah	Jubilee
Harry	Toulon	Vaught, John H.	Shawneetown
J. E.	Canton	Vezain, George	Ottawa
James H.	Norris	Vickery, Henry	Pottstown
Charles	Roseville	Vogt, Leon	Shawneetown
William	Shelbyville		
inger, Conrad	French Village		
in, Thomas A.	Marion	Wages, E.	Canton
n, O. F.	Rushville	Walne, James	Atkinson
Ralph	Pleasant View	Wainwright, Arthur	Sweetwater
J. P.	Shawneetown	Wahlburg, Albert	Knoxville

*Mine Managers (Ten Men), Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Walck, Peter S.	Farmington	Williams, Alfred	Boden
Walker, James	Mapleton	Wilkerson, J. F.	Grape Creek
Wallis, D. J.	New Burnside	Willis, Alex.	Oraville
Walsh, John	Truro	Willis, Charles	Mapleton
Walsh, John	Milan	Wilson, George	West Jersey
Walton, A. W.	Princeton	Wilson, John	Colchester
Ward, J. D.	Pulley's Mill	Wilson, A. E.	Macomb
Watkins, W. J.	Danville	Wilson, Thomas E.	Blandinsville
Watts, Alexander	Paris	Wilson, Joseph	Swan Creek
Watson, William	Wyoming	Wilson, Anthony	Danville
Watson, Jas.	Cartersville	Wilson, George	Marion
Wayland, James	Colchester	Wilson, Arthur	Cartersville
Weimer, J. R.	Cambridge	Wilstead, Thomas	Rio
Wearmouth, Thomas	Youngstown	Winchouse, W.	Danville
Webster, William	Colchester	Wings, James	La Harpe
Webster, A. J.	Danville	Wirming, Robert	Sato
Weiss, W.	Belleville	Wisley, H. C.	Vergennes
Wells, E. W.	Briar Bluff	Wiseman, Ernst	Peoria
Welford, T. H.	Absher	Wonderling, Henry	Danville
West, John C.	Pine Grove	Wood, Benjamin	Pinckneyville
West, John A.	Pine Grove	Woodcock, Wm. H.	Etherly
Westerlund, John	Streator	Wood, Sam'l	Saline Mines
Whalen, M. Jr.	Colchester	Woodbury, John	Green River
Wheelhouse, Samuel D.	Rushville	Woods, James	St. David
Whittaker, Aaron	Roodhouse	Woodard, John	Oakwood
White, Charles F.	Danville	Woodward, W.	Soperville
White, Charles	Wyoming	Wonders, Henry	Streator
White, M. C.	Pawnee	Worthington, H.	Streator
White, Henry	Elmwood	Wren, T. K.	Morris
White, Wm. J.	Rartonville	Wright, Joseph	Fairbury
White, John A.	Frederick	Wright, Hiram	Danville
Whynn, Wm. E.	Coal Valley	Wuninsiling, James	Sheffield
Wilkinson, M. C.	Danville		
Wilcock, Wilson	Astoria		
Willey, Hiram	S. Danville	Yerman, Timothy	Cuba
Williams, Joseph	Mode	Young, John A.	Cartersville
Williams, Andrew	N. Alton	Young, S. J.	Griffin
Williams, James F.	Kewanee		
Williams, Jerome	Tiskilwa		
Williams, Joseph	Freeemption	Zetter, Albert	Freeburg
Williams, W. J.	Colchester	Zink, G. W.	Peoria
Williams, W. P.	Laoc	Zah, John	Mt. Pulaski
Williams, Oren	Tiskilwa		

## HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

—This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1905.

Name.	Postoffice.	Name.	Postoffice.
C. F.	Nilwood.	Barton, C. W.	Cable.
Henry.	Breese	Barton, Charles W.	Fairmount
Nelson	Lincoln	Bateman, Harry	Murphysboro
Wm. H.	Braidwood	Bateman, R.	Murphysboro
Arthur, Samuel, Jr.	Taylorville	Bates, Thomas W.	Winchester
T. G.	Tilden	Bath, Ameston	Cuba
Der, Henry.	Oglesby	Baumgartner, Geo. J.	Edwardsville
Der, W. A.	Roseboro.	Beard, Charles A.	Streator
Edward.	Collinsville.	Beatty, James H.	Mascoutah
Joseph.	Collinsville.	Beatty, Geo. W.	Mascoutah
David.	Collinsville.	Beatty, Nepha.	Mascoutah
E.	Troy	Beck, Peter L.	Springfield
H.	Seneca	Becker, Fritz.	Mt. Olive.
i, William.	Springfield	Becker F. M.	Sandoval
H. P.	Collinsville.	Beharelle Alfred.	Mapleton
on, Henry.	Lincoln	Behrend, A. D.	Springfield
on, J. F.	Pinckneyville	Beeby, William.	Springfield
on, W. C.	Elmwood	Beese, John E., Jr.	Belleville
on, Norman A.	Princeville	Beese, Charles H.	Belleville
on, Z. B.	Sparta	Bell, Chris	Sherrard
on, Chas. E.	Belleville.	Bell, Mark.	Danville
rs, Solomon.	Girard	Bell, Frank	Tallula
y, John C.	Belleville.	Belt, W. H.	Centralia
y, John	East Peoria.	Belts, Joseph E.	Belleville
on, Thomas.	Viriden.	Beltz, A.	Equality
Joseph	Barclay.	Bennett, Wm.	Stanton
ald, David.	Freeburg.	Bennight, J. E.	Pawnee.
trout, Martin.	Duncan	Bently, George	Springfield
ong, C.	Muncie	Benton, Poolie R.	Herrin
ong, William C.	Marion	Benvenuto, Charles.	Dawson
ft, Chas. C.	Pana	Berkley, N. T.	Cuba
n, Joseph	Murphysboro	Bertin, Henry.	Pana
Robert R.	Tilden	Bienert, J. O.	Spaulding
r, Stephen	Clark City	Bigelow, A. E.	Spaulding
C. P.	Colchester	Biggs, W. A.	Herrin
William	Lenz Station.	Blake, Albert	Streator
erry.	Edwardsville.	Blackman, Ben	Dawson
		Blalock, Charles F.	Niantic.
		Blair, George.	Streator
		Blue, Jessie	Norris
James F.	Westville.	Black, Jas. A.	Troy
John	Braidwood	Bloomberg, Albert.	Sherrard.
Robt.	Sunfield	Billips, Joseph M.	Kewanee
Robert	Sparta	Boden, J.	Gilchrist
Darius N.	Spillertown	Boettcher, Alfred	Freeburg.
F.	Springfield	Boggs, Dow J.	Kewanee
James E.	Westville	Boggs, E. W.	Galva
C. H.	Fairmount	Boggs, G. W.	Galva
Henry	Springfield	Bohlen, Henry E.	Mt. Olive
th, Edward	Assumption	Bohlender, Edward.	Pekin
ll, H. G.	Kinmundy.	Bolton, Mark	Gilchrist
ll, Oscar B.	Herrin	Hookstaver, Jos.	Duquoin
C. E.	Duquoin	Bonstead, W. F.	Coal City
C. W.	Duquoin	Boots, James Franklin	Germantown
William G.	Tilden	Boring, Frank L.	Odin.
ank	Centralia		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Bostin, William H.	Murphysboro	Chapman, William E.	Salisbury
Boswell, William	Dunfermline	Charpenter, Joseph	Braidwood
Bolles, Wm	Auburn	Chesney, O.	Breesee
Bottomley, B.	Paisley	Chester, David	Springfield
Houl, Leonard	Belleville	Chew, Oliver	Sato
Bourne, Archibald	Marion	Chew, B. R.	Carlinville
Bradbury, R. D.	Carbondale	Chitwood, William H.	Catlin
Bradenburg, F.	Belleville	Chorlton, Thomas	Birkner
Bradley, Simon	Edwardsville	Church, Van L.	Duquoin
Brants, Elit G.	Pekin	Church, William	Marissa
Bradley, Wm. P.	Virdeen	Christ, Philip	Wenona
Brasel, S. R.	Centralia	Clark, Corey	Coal City
Bretz, Anton	Germantown	Clark, Christopher	Decatur
Bretz, Matt	Belleville	Clark, C. N.	Duquoin
Bromley, Charles	Coal City	Clark, John	Marquette
Bromley, George, Sr.	Catlin	Clark, John R.	Virdeen
Bromley, George, Jr.	Kellyville	Clark, John	Virdeen
Broughton, Geo. C.	Coffeen	Clark, Quintin	Braidwood
Brother, David	Mt. Pulaski	Clark, Henry L.	Petersburg
Brown, George A.	Iles Junction	Claudin, Josh	Pekin
Brown, H. L.	Duquoin	Clayton, William	Collinsville
Brown, James A.	Springfield	Clayton, D. J.	Johnson City
Brown, Thomas	Moweaqua	Clickner, C. S.	Witt
Brown, Wm. F.	Pontiac	Clifford, Michael	Kewanee
Brown, Wm. H.	Duquoin	Clifton, William H.	Sparland
Brown, Edward E.	Sparta	Cline, John	LaSalle
Brown, William	Murphysboro	Coan, James	Westville
Brown, Marion	Taylorville	Coatney, Grant	Fairmount
Brubeck, John W.	Pawnee	Coburn, W. A.	Princeville
Brueggemann, Michael A.	Belleville	Collinton, Chas.	Belleville
Bruggeman, Geo.	Nashville	Collingwood, Wm.	Greenview
Bruce, James	Athens	Collingwood, Albert E.	Springfield
Buckley, Calvin W.	Sparland	Collins, Walter	Mt. Vernon
Bunge, Geo	Belleville	Collins, John	Birkner
Burbridge, J. W.	Brereton	Colton, George C.	Carterville
Burgess, Charles E.	Greenview	Colwell, W. P.	Canton
Burke, Riley M.	DeSoto	Compton, James	Colfax
Burkholder, Oliver W.	Dewmaine	Compton, Stephen B.	Sorento
Burlinson, Aaron	Percy	Conley, John	Streator
Burr, Chauncey	Coulterville	Connelly, J. J.	Murphysboro
Bullock, William	Collinsville	Conway, John	Collinsville
Bumgarner, Ross	Ledford	Conway, Michael	Ladd
Burrell, G. K.	Farmington	Cook, G. E.	Hallidayboro
Burrows, William	Williamsaville	Cook, Wm. D.	Westville
Butcher, Thomas	Murphysboro	Cook, Tom	Duquoin
Butt, Thomas R.	Litchfield	Cook, John	Elkville
Byrne, Michael	LaSalle	Cooper, J. H.	Nilwood
		Cornelius, Richard	Fairmount
		Cottle, Elmer	Buffalo
		Cotton, George	Hallidayboro
		Cox, John	Ledford
		Cox, William	Rutland
		Craddock, Robert	Auburn
		Craft, George	Kangley
		Craig, Daniel G.	Danville
		Craig, Daniel	Danville
		Crenshaw, D. B.	Harrisburg
		Crenshaw, J.	Marion
		Crinigan, Barney	LaSalle
		Crocker, Edward	Marquette
		Crouch, Millard F.	Nilwood
		Cryder, James F.	Divernon
		Cruickshanks, Robert	Middle Grove
		Cruickshanks, John	East Peoria
		Cruickshanks, William A.	East Peoria
		Cruthers, Zina B.	Taylorville
		Cummings, George	Pana
		Cumming, Geo. A. P.	Gardner
		Cumming, Geo. P.	Sparland
		Cummings, Robert W.	Sparta
		Cutler, Frank H.	Princeville
		Cutler, Scott	Duquoin
Cagle, Alfred	Marion	Daenzer, Anton	Glen Carbon
Cain, Daniel	Ridgley	Dalhous, Frank C.	Staunton
Cain, Daniel P.	Ridgley	Dalton, Isam	Yates City
Cain, John	Ridgley		
Callar, Isaac	Pottstown		
Calliar, Geo. H.	Peoria		
Cameron, Daniel	Pana		
Camp, John R.	Westville		
Campbell, A.	Peoria		
Campbell, Fred	Sorento		
Campbell, T.	Coal City		
Campbell, W. J.	Coal City		
Campbell, Wm. T.	Cable		
Cantrell, H. T.	Farmington		
Carlson, Alexander	Galva		
Carmichael, Thos.	Springfield		
Carmichael, John	Berlin		
Carpenter, Chas.	Girard		
Carpenter, James T.	Oakwood		
Carr, Robert H.	Freeburg		
Carrington, Eugene	Moweaqua		
Carrell, Hugh	Moweaqua		
Carter, Albert J.	Cutler		
Carter, W. E.	Barclay		
Caudle, James F.	Sorento		
Caulk, Arthur	Sorento		
Cearing, Samuel A.	Springfield		
Chapman, J. B.	Petersburg		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Thomas.....	Diamond	Dunsmore, Thomas.....	Springfield
John W.....	Springfield	Dunstedler, William S.....	Edwardsville
l, James.....	Belleville	Durham, James D.....	Lake Creek
ls, Joel.....	Belleville	Dyer, Harry.....	Duquoin
ns, Thos. J.....	Braceville		
tader, William.....	New Athens		
R. J.....	Glen Carbon	Easley, H.....	Taylorville
port, Thomas.....	Harrisburg	Katon, A. C.....	Duquoin
B. D.....	Coffeen	Eaton, Robert.....	Sunfield
Carl.....	St. John	Kaston, George.....	Willisville
C. E.....	Divernon	Eccleston, John.....	Streator
Frank.....	St. John	Eddy, Evermont.....	Athens
Jas. A.....	Hillsboro	Eastham, G. A.....	Girard
Chas. W.....	Edinburg	Edwards, George W.....	Springfield
Jackson.....	Auburn	Elder, Alexander C.....	Marissa
E. E.....	Lincoln	Elliott, Clarence.....	Bryant
Frank J.....	Duquoin	Elliott, H. H.....	Centralia
James P.....	Belleville	Edwards, Thomas.....	Spring Valley
John W.....	Lake Creek	Eks, Daniel B.....	Springfield
John.....	Belleville	Eks, Henry.....	Ridgely
L. D.....	Coffeen	Emans, Ransom R.....	Farmington
Thomas.....	Belleville	Ellis, Albert.....	Cable
Hardin.....	Eldorado	Elemendorf, E.....	Belleville
Wm. H.....	Fairbury	Elmore, V. M.....	Coffeen
Charles A.....	Belleville	Emery, H. W.....	Greenville
on, John G.....	St. John	English, Thomas.....	Streator
on, Joseph.....	Sherrard	Erisman, Jacob D.....	Niantic
on, Van C.....	Spring Valley	Erisman, Jesse.....	Niantic
on, John C.....	Streator	Estes, W. B.....	Danville
en, J. F.....	Peoria	Evans, Albert.....	Glen Carbon
Robert.....	Belleville	Evans, Roderick B.....	Girard
l, L. B.....	Tallula	Evans, Thomas.....	Spaulding
l, William S.....	Greenview	Evans, C. L.....	Virden
her, Thomas.....	Elmwood	Evans, Price.....	Bissell
r, William.....	Oglesby	Evans, W. E.....	Danville
Henry.....	Glen Carbon	Evans, Wm. L.....	Eldorado
nett, Thomas.....	Mt. Vernon	Eyerly, John C.....	Canton
re, Frank.....	Springfield	Eytman, Frank.....	Spring Valley
o, Robert E.....	Willisville	Eydman, Henry.....	Coulterville
y, William.....	Westville	Eynon, David.....	Duquoin
sey, Columbus.....	Harrisburg		
William.....	Diamond	Fabry, A.....	Braceville
gton, Walter.....	Herrin	Fahay, John.....	Decatur
n, O. N.....	Coffeen	Falkenstein, George A.....	Astoria
n, William.....	Petersburg	Farmer, Frank.....	Bloomington
l, Francis.....	Clark City	Farley, James.....	Riverton
Robert.....	Sunfield	Farwood, L. C.....	Springfield
John.....	Auburn	Fenton, M. H.....	Streator
William.....	Auburn	Ferguson, J. B.....	Divernon
Frederick W.....	Springfield	Ferguson, John J.....	Spring Valley
George.....	Wenona	Ferren, Edward.....	Barclay
Samuel H.....	Pottstown	Ferris, W. H.....	Marquette
ll, Edward J.....	Decatur	Fillingham, J. A.....	Canton
l, E. W.....	Pontiac	Finnigan, Thomas J.....	Springfield
ing, Fred.....	Mt. Olive	Finegan, Wm. H.....	Springfield
John.....	LaSalle	Fischer, Phillip.....	Lenzburg
son, J. W. Jr.....	Dunfermline	Fisher, George.....	Staunton
lly, J.....	Springfield	Fisher, Patrick.....	Kangley
l, E. J.....	Pontiac	Fitzsimmons, Maurice.....	Peru
erty, Joseph.....	Taylorville	Flesher, A.....	Taylorville
C. W.....	Glen Carbon	Flesher, O.....	Clay City
r, John.....	Auburn	Fletcher, Henry A.....	Ladd
ng, Ira F.....	Springfield	Fletcher, I. W.....	Springfield
ng, Robert D.....	Bartonville	Fogerson, Andrew.....	Central City
l, L.....	Cuba	Foot, Charles.....	Westville
el, Fred W.....	Taylorville	Foot, Wm.....	Westville
William.....	Streator	Forister, Robert.....	Murphysboro
John.....	Troy	Forister, Wm.....	Murphysboro
an, L. H.....	Blue Mound	Fortney, John W.....	Kinmundy
Glenn E.....	Collinsville	Foster, Albert.....	Elmwood
B. A.....	Collinsville	Foster, A. J.....	Litchfield
n, J. R.....	LaSalle	Fox, Frank L.....	Assumption
L. A.....	Duquoin	Fox, Fred.....	Middle Grove
William L.....	Clark City	Fox, Wm.....	Taylorville



*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Fox, James B.	LaSalle	Greaves, Walter	Ladd
Fox, Thomas	Lincoln	Green, Joseph	Canton
Frain, Austin	Ridge Prairie	Green, Daniel	Braidwood
Frankland, Tim	Streator	Green, Roy	Wilmington
Freeman, E. F.	Shelbyville	Green, R. A.	Coffeen
Freeman, M. F.	Duquoin	Green, Thomas	Marissa
Frick, U. B.	Lake Creek	Green, Wm. H.	Streator
Friend, J. W.	Collinsville	Greenhagh, James	Hillsboro
Frier, Jacob	Ormsby	Greenhagh, William	Hillsboro
Friend, E. A.	Collinsville	Greenman, Martin	Pontiac
Friend, Wm. L.	Collinsville	Greener, George	Greenview
Friesland, O. M.	Sallsbury	Grierson, John	Streator
Fritz, Gustav	Breese	Grimmett, Chas. C.	Girard
Fritz, William	Lebanon	Grice, Albert	Kewanee
Fry, D. W.	Clark City	Grieves, David	Birkner
Ferguson, S. P.	Strasburg	Grieves, James	Birkner
Fuston, D. H.	Murphysboro	Griffin, John O.	Kewanee
		Groom, Alexander	Belleville
		Groom, John, Sr.	Belleville
		Groom, James	Belleville
		Groom, William	Belleville
		Groom, John	Belleville
		Groover, Harmon M.	Canton
		Grubb, Michael	Riverton
		Geistdorfer, Fred	DeSoto
		Guy, D. F.	Springfield
		Guirck Howard	Litchfield
		Guirck, L. E.	Litchfield
		Guthrie, T. E. B.	Marissa
Gahl, Fr d T.	St. John	Hackett, Gwen	Spaulding
Gallagher, Geo.	Lebanon	Haddick, Wm. L.	Sherrard
Gallutia, C. M.	Cartersville	Haensel, Edward	Lenzburg
Gamber, H. H.	Ziegler	Haensel, David	Lenzburg
Gandy, James W.	Peoria	Hagler, Charles	Fredonia
Gaskins, Asa	Harrisburg	Hale, Wm. T.	Troy
Gately, Bernard	Diamond	Hale, James	Dunfermline
Gately, James	Seatonville	Haley, Edward	Kinmundy
Gasnell, George W.	Herrin	Hall, G. R.	Colchester
Gates, Wm. S.	Kankakee	Hall, G. R.	Nilwood
Gallagher, Peter	Clark City	Hamilton, Chas. E.	Cinton
Gaughan, James	Braidwood	Hamilton, James H.	Sparland
Geer, Benjamin H.	Wolcott	Hampton, N. R.	Murphysboro
Geer, U. S.	Pekin	Hand, P. L.	Peoria
Geer, Chauncy N.	Wolcott	Hanvey, John	Collinsville
Gilmour, Allan	Diamond	Handle, Ledlie	Taylorville
Germer, Fred	Danville	Hanenstein, J. W.	Willisville
Gerjettas, Harry	Athens	Hanes, W. J.	Salem
Geyer, J. A.	Wanlock	Hankins, John W.	Sorento
Gibson, John	Sandoval	Hanson, William	O'Fallen
Gibson, J. W.	Sherrard	Hanvey, John J.	Collinsville
Gibson, Henry	Coal City	Hanvey, Robert	Collinsville
Gilchrist, H. M.	Coal City	Hanvey, William	Collinsville
Gilmore, J. E.	Hillsboro	Haddicks, Frederick H.	Cable
Gilson, R. W.	Danville	Happer, Frank	Edwardsville
Girfen, Henry	Troy	Harding, Enos	Birkner
Glacken, Hugh	Coal City	Hardy, Warren	Pawnee
Gladdens, Wm.	Coal City	Harms, Helke	Petersburg
Gladson, E.	Duquoin	Harper, Oscar	Lebanon
Gladson, F.	Duquoin	Hardy, Thomas	Springfield
Glass, Reuben	Edwardsville	Hardy, Thos. W.	Dawson
Glennon, Philip	Williamsville	Harms, Will J.	Petersburg
Glennon, John	Riverton	Harmon, M. W.	Oglesby
Glover, Frederick	Peoria	Harner, Elmer	Decatur
Goalby, Arthur A.	Percy	Harris, J. W.	Springfield
Goalby, B. F.	Percy	Harris, W. C.	Nilwood
Goalby, Frank H.	Stokey	Hartman, Frank	Murphysboro
Goalby, W. A.	Belleville	Hartman, John F.	Murphysboro
Goddard, Wm. H.	Spillertown	Hartwell, A. Lincoln	Marion
Goddard, W. L.	Lake Creek	Hartwell, J.	Marion
Goforth, Wm.	Pana	Hartwell, Roy	Marion
Gollither, H.	Herrin	Harvey, M. F.	Duquoin
Gordon, E. J.	Petersburg	Hartman, W. H.	Coulterville
Gordon, Alex B.	O'Fallon	Harvey, Wm. R.	Wanlock
Gorham, A. B.	Lincoln	Haughanant, John D.	Spring Valley
Gorman, J.	New Douglas	Havel, Joseph	French Village
Gottschalk, Fred	Springfield		
Gould, George	Sato		
Gowin, Curtis	Green Ridge		
Gowin, Frank	Green Ridge		
Grace, John T.	Kewanee		
Graham, L. A.	Bloomington		
Graham, William	Springfield		
Graden, Orville B.	Taylorville		
Graham, Reuben	Virden		
Grant, Lewis	Pekin		
Gray, Thomas	Springfield		
Gray, Chas. H.	Springfield		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
er, J. O.	Pana.	Jackson, William	Minonk
erth, William	Sandoval	Jacobs, George R.	Elmwood
er, Arthur H.	Danville	Jacobs, James M.	Moweaqua
er, James	Bloomington	Jacobs, J. P.	Bartonville
er, George L.	Murphysboro	Jacobs, William	Murphysboro
er, John S.	Assumption	Jacobs, W. Sr.	Peoria
er, Wm.	Riverton	Jamison, John	Petersburg
er, F. C.	Mt. Olive	Jeffrey, James	Marissa
er, C. W.	O'Fallon	Jeffrey, John	Belleville
er, John F.	Wanlock	Jenkins, John L.	Danville
er, Philip	Kewanee	Jenkins, T. E.	Athens
er, John J.	Greenview	Jenks, William	Bloomington
er, George	Belleville	Johnson, James J.	Taylorville
er, Walter	Edwardsville	Johnson, John W.	Birkner
er, John	Belleville	Johnson, J. S.	Duquoin
er, George P.	Olin	Johnson, Robert	Pawnee
er, J. P.	Staunton	Johnson, S.	St. John
er, A. F.	Avingdon	Johnson, W. C.	Marion
er, John	Ridgely	Johnson, William H.	Soperville
er, Edward B.	Morrisonville	Johnson, William L.	Spring Valley
er, Lawrence	Wyoming	Johnson, Harmon	Middletown
er, James	St. David	Johnston, Joseph R.	Pontiac
er, John	Dunfermline	Johnstone, Thomas	Pontiac
er, C.	Marissa	Johnston, Thomas B.	Freeburg
er, C. W.	Pontiac	Jones, George	Belleville
er, Emerson	Westville	Jones, Henry E.	Staunton
er, George	St. David	Jones, John P.	Marissa
er, Henry	Astoria	Jones, Jonathan, Jr.	Marissa
er, P.	Toluca	Jones, Vernon L.	Barclay
er, Milo	Herrin	Jones, Jonathan, Sr.	Marissa
er, Francis E.	Centralia	Jones, Joseph	Staunton
er, Edward	Murphysboro	Jones, Logan	Marissa
er, Moses	Smithboro	Jones, Felix E.	Barclay
er, Charles	Glen Carbon	Jones, Thomas	Muncie
er, Frank	Springfield	Jones, William	Marissa
er, Arthur J.	Mt. Olive	Jones, William	Braceville
er, Miner	Carterville	Jones, John	Grape Creek
er, Geo.	Breese	Jones, James W.	Pana
er, George	Glen Carbon	Jones, John	Marissa
er, H. H.	Gillespie	Jones, R. T.	Kewanee
er, G.	Glen Carbon	Jordan, Robert	Streator
er, Shelby	Cutlin	Judd, Charles E.	Edwardsville
er, L. R.	Harrisburg		
er, William T.	Hornsby	Kalebaugh, Clinton H.	Astoria
er, Alvin	Taylorville	Karnes, Geo. R.	Galatia
er, J.	Freeburg	Karney, Emory O.	Hallidayboro
er, C. O.	St. John	Kasselman, Frank H.	Worden
er, S. J.	Hanna City	Keating, Edward F.	Streator
er, Chas.	Streator	Keating, Richard	Streator
er, G. W.	Springfield	Kelley, James D.	Carbon Hill
er, L. W.	Springfield	Kelly, Martin	Toluca
er, L.	Canton	Kelley, Robert D.	Carbon Hill
er, R. D.	Streator	Kelly, Charles	Streator
er, William	Murphysboro	Kelly, N.	Petersburg
er, J. A.	Streator	Kelly, George	Worden
er, William A.	Springfield	Kelly, Richard V.	Central
er, John C.	Springfield	Kemper, Christian	Belleville
er, B. B.	Greenview	Kenady, Fred A.	Cambridge
er, Lee	Murphysboro	Kenaday, Perry	Cambridge
er, John	Lincoln	Kennedy, W. J.	Edwardsville
er, Chas.	Edinburg	Kearney, John	Peoria
er, W. F.	Edinburg	Kerchner, Howard	Belleville
er, Robert	Sparta	Kerchner, John	Belleville
er, Jacob	Springfield	Kerns, Samuel J.	Springfield
		Kessick, Chas. W.	Decatur
er, Wm. A.	Duquoin	Kester, Charles E.	Raymond
er, George M.	Marion	Kidd, Alonzo	Fairmount
er, Orie W.	Glen Carbon	Kilbride, T. C.	Farmington
er, A.	Glen Carbon	Killinger, C.	Collinsville
er, Alvin	Gillespie	Killinger, Harry	Germanatown
er, Byron	Pana	Killinger, John	Collinsville
er, John	Gillespie	Kimball, Joel L.	Hillsboro
er, Robert K.	Pontiac	Kimber, John	Ladd
er, George	Roseboro	King, John	Carterville
er, Charles	Sparta	Kingerfus, Wm.	Belleville

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Kinghom, John	Staunton	McCormack, James J.	Springfield
King, Alexander, Sr.	Carterville	McCulley, G. I.	Pawnee
King, Alexander, Jr.	Carterville	McCunsky, Tobias	Assumption
King, L. B.	Smithboro	McCurdy, J.	Taylorville
King, Charles	Collinsville	McDonald, John	Springfield
Kincannon, John	St. John	McDonald, W. H.	Pana
Kirby, Thomas, Jr.	Peru	McDonald, William J.	Percy
Kirshner, Frank	Belleville	McDonald, Peter G.	Carbon Hill
Klaus, Louis	Belleville	McDonald, Frank R.	Athens
Klingenfus, Edward	Belleville	McFarland, F. E.	Murphysboro
Klinkner, Frank	Colfax	McGittigan, Thomas	Pana
Knapp, Enoch	Assumption	McGowan, Edward	Lincoln
Koenig, George	LaSalle	McGowan, J. R.	Herrins Prairie
Koombs, James	Marion	McIntyre, A. D.	Sparta
Krully, Andrew	Braceville	McKean, Andrew	Coal City
		McKean, John	Carbon Hill
		McKean, Isaac	Coal City
		McKearnan, J. B.	Athens
		McKee, C. L.	Lake Creek
Lambert, George W.	LaSalle	McKeerman, John	Belleville
Lambert, Wm.	Middletown	McLaughlan, F. T.	Carbon Hill
Lanham, John W.	Danville	McLaughlin, George	Carbon Hill
Larkin, James G.	Athens	McLean, J.	Pleasant Plains
Laughrey, Jonathan P.	Carbon Cliff	McMillin, W. M.	Danville
Lavallier, U. S.	Chenoa	McMurry, P.	Virden
Lawson, George	Cable	McNail, Albert	Mt. Vernon
Layne, J. W.	DeSoto	McPherson, James	Murphysboro
Ledbetter, George	Sorento	McQuade, J.	Clark City
Leek, Carroll	Hallidayboro	McNeil, S.	Coulterville
Leeper, C. W.	Equality	McVey, Frank W.	Roanoke
Lehman, Phillip	Lebanon	McVicar, Donald	LaSalle
Lemons, J. L.	Girard	Marland, James	Wenona
Leslie, G. Lutton	Rutland	Marland, William	Sparland
Leslie, George	Gardner	Marie, John E.	Pottstown
Leslie, N. B.	Braidwood	Marshall, Robert	Murphysboro
Lewis, Alvin	Catlin	Martin, Benjamin	Toluca
Lewis, James	Canton	Martin, N. W.	Marion
Lindsey, J.	Oglesby	Marxer, Louis J.	Millstadt
Lindskey, Martin H.	Streator	Marxer, Wm. J.	Millstadt
Lindstrom, Oscar	Sharrard	Massie, J. T.	Belleville
Linsky, James	Braidwood	Mason, E.	Winchester
Linsky, Patrick J.	Braidwood	Mathis, George	Duquoin
Little, G. E.	Edwardsville	Matthews, C.	Willisville
Little, Peter	Peoria	Maule, William	Belleville
Little, Thomas	Murphysboro	Maxwell, Fred	Peoria
Lockhart, Lewis	Niantic	Mayor, A. W.	Duquoin
Lockie, G. O.	Carterville	Mayor, J. W.	Duquoin
Lockie, William	Carterville	Meadows, William	Ledford
Loding, Charles A.	Loding	Michaelis, Edward	Belleville
Loebel, Frank	Trenton	Meithe, Wm.	Georgetown
Loeffler, Adolph E.	O'Fallon	Melvin, Elmer	Tamaroa
Long, Noah B.	Pontiac	Meng, George W.	Freeburg
Long, Edward	Norris	Meridith, Arthur R.	Troy
Lozin, P.	Lincoln	Mercer, L. W.	St. John
Lucht, M. F.	Mt. Olive	Messersmith, Fred	Athens
Lucey, Michael	Ridgely	Messenger, Joseph	Williamsville
Lundeen, Frank W.	Galva	Meyer, Henry	Trenton
Lundy, J. P.	Mt. Pulaski	Myer, John	Staunton
Lundley, Ralph	Ridge Prairie	Michaels, Otto L.	Belleville
Lynch, M.	Herrin	Miller, A. J. F.	Centralia
Lyons, A.	Riverton	Miller, Hugh	Braceville
		Miller, James C.	Tamaroa
		Miller, James	Alma
		Miller, T. H.	Raymond
		Miller, William C.	Rentchler
		Mills, Thomas S.	Coal City
		Minzer, Robert A.	Spaulding
		Mitchell, E. R.	Farmington
		Mize, Walter	Pana
		Mockbee, Luther	Niantic
		Mohm, E.	Peoria
		Morehouse, Charles L.	Danville
		Moffat, R. E.	Cutler
		Moffatt, John	So. Wabasha
		Molash, A.	Springfield
		Monaghan, James	Gillespie
		Moor, F. J. W.	Springfield
Maasburg, H. C.	Pinckneyville		
Mader, Charles H.	Staunton		
Madden, Harvey	Danville		
Manley, Leo	Coffeen		
Mainwaring, James	Braceville		
Mair, Max	Lebanon		
Malcolm, Wm. J.	Braceville		
Maltby, Edward	Braidwood		
McAddams, John W.	Percy		
McAllister, Thomas	Hallidayboro		
McCann, David	Lincoln		
McCarthy, John	Lincoln		
McCartney, C. F.	Alexis		
McCauley, Aaron	Streator		
McClelland, A. J.	Cuba		
McConachie, Ed	Auburn		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
A	Braceville	Otte, John	Collinsville
John A	Christopher	Outhouse, John	Johnson City
A. D.	Elmwood		
John	Belleville	Paddock, W. D.	Pana
n, Charley	Eldorado	Padden, J. W.	Spring Valley
n, John C.	Springfield	Pair, J. H.	Willisville
n, William	Carbon Hill	Parks, James	Streator
Frank	Peoria	Parker, Joseph	Murphysboro
A	Duquoin	Patterson, R. J.	Murphysboro
J	Springfield	Patterson, T.	Gillespie
John W.	Divernon	Patterson, W. M.	St. Louis, Mo.
George	Belleville	Patterson, Bert	Westville
James H.	Nashville	Pankey, James M.	Equality
James	Mt. Olive	Patton, Frank L.	Springfield
William	Mt. Olive	Pearce, H. L.	Cable
Wm	Harrisburg	Peecher, David	Braidwood
ey, Thomas	Lebanon	Peet, Chas	Marseilles
on, Archie	Oglesby	Pemberton, C. H.	Duquoin
Joseph L.	Edinburg	Perkes, Ephraim	Soperville
Jacob W.	Rentchler	Petrea, J. W.	Vadecook
ney, Christopher	Edwards	Peters, Alonzo L.	Peoria
ney, A. T.	Glenburn	Petro, Mike	Braceville
Alfred L.	Belleville	Pendergast, John	Centralia
Joseph L.	Belleville	Perrins, George H.	Herrin
y, Robert T.	Norris	Peyla, George	Braidwood
y, Edward	Farmington	Pierson, Chas.	Harrisburg
y, James F.	Springfield	Pierson, Jos	Harrisburg
Archie	Trenton	Pierson, Thomas	Harrisburg
y, Robert	Coal City	Phillips, J. M.	Athens
y, Christopher C.	Gillespie	Pinkerton, John G.	Hanna City
y, Hugh	Nashville	Piper, James	Worden
y, Joseph P.	Rosboro	Piper, Oliver G.	Staunton
Henry	Minonk	Piper, Joseph	Glen Carbon
Peter W.	Carlinville	Pircher, Peter P.	Sandoval
William	Decatur	Pitra, Frank	Odin
		Pitt, Joseph	Trenton
Jake	Springfield	Platt, J. A.	Springfield
e, A. J.	Herrin	Plenty, Geo. R.	Canton
Ambrose	Carlinville	Plimmer, Benjamin	Streator
John H.	Carterville	Plocker, Henry	Pana
iam, Daniel	Breese	Pointer, Edward H.	Belleville
y, Ollie K.	Norris	Poole, Edward A.	Lake Creek
y, James W.	Sparta	Poole, Arthur H.	Murphysboro
n, Andrew V.	Centralia	Powell, Edwin	Caseyville
el, Fred H.	Caseyville	Powell, F. C.	Seatonville
l, Leroy	Sparland	Prescott, G. A.	Centralia
er, James	Belleville	Price, Thomas	Spanlding
ls, John	Athens	Price, Daniel D.	Redlich
ls, E. K.	Coffeen	Prickett, Thomas M.	Niantic
ls, F. B.	Coal Valley	Pritchard, H. C.	Lewistown
rson, James K.	Colfax	Pruett, J. M.	Harrisburg
William	Belleville	Pugh, Daniel	St. John
Adolph	Belleville	Pullen, R. H.	Sorento
org, Peter	Galva	Pulver, R. H.	Centralia
orn, Frank	Galva		
i, James J.	Murphysboro	Qualls, Nevall	Dubois
i, Floyd	Duquoin	Quick, A. T.	Sato
n, William	Oglesby	Quick, A. S. H.	Sato
n, Victor	Brereton	Quick, Seibert T.	Pinckneyville
et, Thomas M.	Springfield	Quigley, Henry	Halidayboro
		Quinn, Joseph	Springfield
en, Terry	Decatur		
nell, Michael	Decatur	Raber, F. C.	Troy
i, William	Rentchler	Raber, Louis	Collinsville
i, Samuel	Mascoutah	Radford, William T.	Bloomington
er, J	Odin	Rafter, Michael	Marquette
August	Streator	Rafter, James P.	Springfield
l, James	Streator	Raisbeck, John	Braceville
cko, Geo	Braceville	Raker, Truman	Rutland
Frederick	Mt. Olive	Randle, Caleb	Belleville
y, Wilbur	Grape Creek	Randle, William	Freeburg
R	Mt. Vernon	Rasor, J. D.	Staunton
on R.	Danville	Rasch, Aug. F.	Trenton
e, Benjamin	Streator	Ratcliffe, A.	Sheffield
Glen L.	Streator		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Rawson, Grant I.	Belleville	Sands, Robert K.	Marissa
Rawlings, Alex. N.	Cantrall	Sangrelet, Charles	Litchfield
Ray, Hugh	Wanlock	Savage, Richard	Clarke City
Reagan, William	Mt. Olive	Sawyer, V.	Staunton
Reatz, Hans	Lincoln	Sawyers, Joseph	Coal City
Reading, Curtis	Niantic	Saylor, C. F.	Murphysboro
Record, L. A.	Rutland	Schaifer, Fred	Belleville
Reece, John U.	Collinsville	Shannessy, Thos.	Braidwood
Reed, John	Herrin	Scheffler, Julius	Pekin
Reed, W. J.	Danville	Schramm, Charles	Belleville
Reetz, Herman	Lincoln	Scharinck, Frank	Edwardsville
Reeger, John C.	Pinckneyville	Schmacker, Herman	Glen Carbon
Reese, William M.	Roanoke	Schoolcraft, L.	Cartersville
Redden, Jas. W.	Dewmaine	Schroeder, Charles	Mt. Olive
Reid, Robert	Moweaqua	Schroeder, Henry	Mt. Olive
Reid, Archibald	Springfield	Schnessel, Conrad	Breese
Reid, Andrew B.	Duquoin	Schulte, Fritz	Clinton
Reiddlinger, Peter M.	Peoria	Schumacher, Chas.	Marissa
Reidberger, Wm. J.	Dnbois	Schumm, Fred W.	Gardner
Reilly, Henry	Toluca	Schuster, John	Marissa
Reimann, John	Belleville	Scott, J. W.	Colchester
Remelius, Jacob	O'Fallon	Scurrah, Castling R.	Braceville
Rennard, Jas. Ed.	Grape Creek	Secor, Fred D.	Odin
Reichman, George	Trenton	Seeman, John C.	Cantrall
Rennie, Andrew	Dunfermline	Seeman, George A.	Cantrall
Rennie, James	Dunfermline	Seidel, Fred	Kinmundy
Reuter, August	Mt. Olive	Seller, William	Ormsby
Repplinger, H.	Belleville	Sells, Chas. B.	Colfax
Reyabek, Joseph	Glen Carbon	Seymour, John	Colfax
Rhodes, Almon R.	Chenoa	Shafer, James M.	Girard
Rhoades, Ashley	Taylorville	Shanklin, A. S.	Cartersville
Rice, C. D.	Harrisburg	Sharp, John H.	Spring Valley
Rice, James M.	Sunfield	Sheehan, Peter	Athens
Rice, Moses	Murphysboro	Shellenger, S.	Willisville
Richards, John T.	Staunton	Shepardson, Isaac V.	Fairmount
Richart, Lee	Moweaqua	Shroyer, A. D.	Lincoln
Richmond, John E.	Coal City	Shinn, Charles	Springfield
Riland, Frances F.	Harrisburg	Shriver, P. A.	Kinmundy
Riley, B. J.	Cantrall	Shuler, H. M.	Gilchrist
Riley, Michael	Grape Creek	Siddall, Herbert	Belleville
Rippitoe, J. G.	Colchester	Siddall, John	Belleville
Ritchie, John	Trenton	Siddall, Levi	Belleville
Roach, Samuel	Tamaroa	Simmons, H.	Murphysboro
Roberts, Charles	LaSalle	Sinclair, Guy S.	Glen Carbon
Roberts, Edward J.	Kangley	Silvis, Thomas S.	Carbon Cliff
Roberts, Frank L.	Lake Creek	Simpkins, Homer	Streator
Roberts, John	Litchfield	Sizemore, Wm. I.	Cartersville
Roberts, Jonathan	Willisville	Slocum, Clarence	Gilchrist
Roberts, Erwin	Johnson City	Smith, Chas. H.	Seneca
Roberts, W. P.	Johnson City	Smith, Edward J.	Collinsville
Robinson, Charles	Wenona	Smith, George W.	Virginia
Robinson, J. A.	Riverton	Smith, George W.	St. Louis, Mo.
Robinson, William A.	Toluca	Smith, P.	Danville
Rockey, Charles	Peoria	Smith, S.	Marseilles
Rodgers, Edward	Murphysboro	Smith, Robert	Collinsville
Rodgers, Geo. R.	Sunnfield	Smith Firth	Murphysboro
Rodgers, Finnel	Murphysboro	Smithmeyer, Anton	Lincoln
Rode, Henry	Sherrard	Smyth, C. M.	Danville
Rohe, Herman J.	Alexis	Sneddon, John	O'Fallon
Rohour, Michael	Grape Creek	Sneddon, Richard	Catlin
Rosan, Ben	Duquoin	Sneyd, James	Westville
Rowland, Samuel J.	Divernon	Snowdon, Wm	Georgetown
Rowland, Sidney G.	Belleville	Snyder, Arthur	Danville
Roy, A. I.	Collinsville	Sowerby, Miles	Willisville
Royster, Richard	Peora	Sparks, Emery C.	Ellisville
Rude Edmund.	DeSota	Sparks, J. L.	Mt. Vernon
Ruhlander, E. H.	Mt. Olive	Sparling, Chas.	Seatonville
Russell, Zenas	Pana	Sparling, Henry	Seatonville
Russell, Guy	Harrisburg	Spiller, Elijah	Hallidavboro
Rutliff, Isaac	Ashland	Spires, Albert	Braceville
Ryan, Lawrence	Decatur	Spence, Elmer	Farmington
		Sprout, J. W.	Pontiac
		Stanfel, Martin	Toluca
Sadler, George	Murphysboro	Stanford, J. W.	Pana
Sallade, George	Chatham	Stanforth, F.	Wanlock
Sallade, J. E.	Chatham	Stange, Fred	Marquette
Sampson, Jos. M.	Petersburg	Stanton, Wm. E.	Colchester

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Edgar	Missionfield	Wagoner, Albert H	Johnson City
Robert, Sr.	Danville	Waggoner, Wm. F.	Raymond
H	Salem	Wagmire, James	Assumption
mer, Theodore	Lenzburg	Waldrom, Thos.	Fredonia
C. H.	Spring Valley	Walker, James	Spaulding
L. A.	Mt. Vernon	Walker, John H.	Mt. Olive
James C.	Carbon Hill	Walker, Joshua	Mt. Olive
Peter	Murphysboro	Wallace, Henry G.	East Peoria
yer, E.	Staunton	Waller, Wm. F.	Marion
I	Carterville	Waters, Robert	Springfield
E.	Buffalo	Walford, Noah	Hillsboro
rank	Lebanon	Wallock, Chas.	Braceville
athan	Carterville	Walsh, James D.	Auburn
dwin	Worden	Walton, A. F.	LaSalle
M.	Springfield	Walton, Hugh	Norris
E.	Rutland	Walton, Patrick	Bureau Junction
G. W.	Bloomington	Walton, Joseph	St. David
rm	Belleville	Wantling, T. J.	Pottstown
hn D.	Pinckneyville	Wandless, W. S.	Collinsville
Wm.	Taylorville	Warner, Richard	Troy
Wm.	Worden	Warner, M.	Farmington
arl	Springfield	Warner, Andrew	Colfax
Henry H.	Athens	Wassell, Anton	Braceville
, George B.	Westville	Watson, Frank	Springfield
ohn	Ladd	Watson, M.	Riverton
S.	Harrisburg	Wattawa, Joseph	Belleville
Alexander H.	Danville	Watts, T. J.	Elmwood
red	Toluca	Weaver, Elmer	Dunfermline
		Webb, Albert M.	Greeview
		Webber, J. S.	Rutland
ames	Edwards	Welch, Benjamin	Harrisburg
Edwin	Trenton	Wente, Frank	Nashville
Mack	Westville	Wersen, W. L.	Springfield
Wm. W.	Tamora	West, W. H.	Murphysboro
Simpeon	Bissell	West, Ollie	Herrin
A. P.	Johnson City	Wesner, Ephraim	Streator
C. N.	Taylorville	Westwood, Albert	Belleville
nest	Mt. Olive	Westwood, Edward	Birkner
James C.	Springfield	Westwood, F. T.	Belleville
F.	Litchfield	Weymouth, John	Springfield
George L.	Raymond	Wheatley, John W.	Coal City
, Henry	Rushville	White, Korah	Tower Hill
Fred	Coal City	White, Henry	Riverton
Charles	Rutland	White, Perry J.	Springfield
G. E.	DeSoto	White, Robert	Lincoln
erry, Hiram A.	DeSoto	White, Booker	Catlin
on, Wm. H.	Duquoin	Wickersham, J. R.	Lake Creek
on, Fred	Hinrod	Wilkins, W. P.	Springfield
on, J. H.	Westville	Williams, Andrew D.	Sandoval
E. A.	Marion	Williams, Huston	Spaulding
s, Irvin F.	Marion	Williams, John	Spring Valley
Abel	Wyoming	Williams, Thomas E.	St. David
B.	Staunton	Williams, Watson	Virden
J. L.	Tower Hill	Williams, Wm.	Duquoin
Robert	Danville	Williams, Wm. H.	Sherard
Jonzo	Springfield	Williams, Wm. Hampton	Murphysboro
Wm.	Pana	Williams, John F.	Eldorado
ng, Chas.	Birkner	Williamson, Henry	Coal City
ng, Geo.	Carterville	Williamson, Wm.	Coal City
son, Sinclair	Carterville	Wills, Henry E.	Harrisburg
Geo. W.	Centralia	Wilson, David	Birkner
z, Edward	Lewistown	Wilson, Wm. H.	Middle Grove
	Coal Valley	Wilson, James	Springfield
		Windsor, Samuel	Norris
		Windsor, Robt.	Norris
er, Geo. W.	Centralia	Wines, E. R.	Springfield
t, L. E.	Barclay	Wohlars, S. Henry	Mt. Olive
P. Oliver	Kinmundy	Wolschlog, Geo. J.	Peoria
John	McLean	Wood, Daniel A.	Colfax
e, Chas.	Cable	Woodward, J. R.	Streator
Wm. M.	Edwards	Woolbright, D. A.	Centralia
er, Perry E.	Taylorville	Woodworth, Peter	Pekin
James	LaSalle	Worms, Joseph	Birkner
in, Max	Glen Carbon	Wormack, Chas. A.	Glen Carbon
		Wright, Thos. C.	Belleville
		Wright, Wm. M.	Pana
o. H.	Johnson City	Wrigley, James	Collinsville

*Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Yates, John.....	DeSoto.....	Younghusband, L.....	Coal City.....
Yates, Wm.....	Coal City.....	Youngquist, Frank.....	Sherrard.....
Yebling, Fred H.....	Duquoin.....		
Young, J. K.....	Girard.....		
Young, James G.....	Gardner.....	Zeigler, John.....	Iles Junction.....
Young, Robert.....	LaSalle.....	Zerban, W. F.....	Belleville.....
Young, A. O. K.....	Girard.....	Zink, Louis.....	Belleville.....
Young, Peter J.....	Springfield.....	Zink, Peter A.....	Belleville.....
Young, W. L.....	Duquoin.....	Zuriker, Lorenz.....	Cable.....

## HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob.....	Belleville.....	Egerton, J. O.....	Colchester.....
Allen, William H.....	Collinsville.....	Ekis, Daniel B.....	Springfield.....
Anthony, John C.....	Belleville.....	Essex, George M.....	Soperville.....
		Evans, Albert.....	Glen Carbon.....
		Everett, Charles.....	Rutland.....
Baiwir, John C.....	Braidwood.....		
Banker, Henry.....	Ridge Prairie.....	Fischer, George.....	Staunton.....
Bath, Ameston.....	Cuba.....	Fisher, Patrick.....	Kangley.....
Beeby, William.....	Springfield.....		
Bell, George E.....	Canton.....		
Benvenuto, Charles.....	Toluca.....	Gaudy, James W.....	Peoria.....
Birkley, N. T.....	Cuba.....	Glasford, Oliver.....	Orchard Mines.....
Blue, Jesse.....	Norris.....	Glenam, Philip.....	Williamsville.....
Bonick, Andrew.....	Gilchrist.....	Graham, J. A.....	Nilwood.....
Bowman, George W.....	Yates City.....	Graham, Reuben.....	Virden.....
Brown, G. A.....	Iles Junction.....	Grattendick, Fred.....	Okawville.....
Brubeck, J. W.....	Pawnee.....	Greaves, Allen.....	Nashville.....
Brumann, Albert.....	Springfield.....	Grey, David F.....	Springfield.....
		Grierson, John.....	Streator.....
		Grimshaw, Joseph.....	LaSalle.....
		Groom, John.....	Belleville.....
Campbell, Albert.....	Pottstown.....		
Campbell, James.....	Coal City.....	Haas, Jacob.....	Millstadt.....
Carlson, Alexander.....	Galva.....	Hackett, Owen.....	Spaulding.....
Carrington, Eugene.....	Moweaqua.....	Hagler, Charles.....	Fredonia.....
Carter, Albert J.....	Pinkneyville.....	Hall, Geo. R.....	Nilwood.....
Chitwood, William.....	Glenburn.....	Hanson, William.....	O'Fallon.....
Clark, Charles M.....	Duquoin.....	Harms, Heike.....	Petersburg.....
Cline, John.....	LaSalle.....	Harris, J. T.....	Tamaroa.....
Collins, John.....	Birkner.....	Heaver, F.....	Sandoval.....
Cook, W. D.....	Westville.....	Hickox, Lee.....	Springfield.....
Cotton, George.....	Hallidayboro.....	Howe, Charles.....	Streator.....
Cox, John.....	Ledford.....		
Craig, Daniel.....	Danville.....	Ichman, Frank.....	Spring Valley.....
Crawson, William.....	O'Fallon.....	Isadore, Charles.....	Sparta.....
Crinigan, Barney.....	LaSalle.....	Isadore George.....	Sparta.....
Crocker, Edward.....	Marquette.....		
Cruikshanks, Wm. A.....	Middle Grove.....	Jackson, William.....	Minonk.....
Cummings, Robert H. L.....	Sparland.....	Jacobs, John P.....	Orchard Mines.....
Daley, Thomas.....	Diamond.....	Jacobs, William.....	Murphysboro.....
Dauck, John.....	LaSalle.....	Jamison, John.....	Petersburg.....
Davenport, Thomas.....	New Castle.....	Jeffrey, William.....	Gilchrist.....
Davis, George W.....	Hanna City.....	Johnson, Edgar W.....	Mariss.....
Davis, Thomas.....	Swanwick.....	Jones, George W.....	Riverton.....
Davis, William H.....	Streator.....	Jones, T. A.....	Muncie.....
Davison, J. G.....	St. John.....	Judd, Thomas.....	Cuba.....
Dawson, John.....	Streator.....		
Dawson, Thomas.....	Streator.....	Kearney, E.....	Hallidayboro.....
Dawson, V. C.....	Spring Valley.....	Kelley, Martin.....	Toluca.....
DeBacher, Thomas.....	Elmwood.....	Kemper, Christian.....	Belleville.....
DeHass, B. L.....	Tallula.....	Kennedy, W. J.....	Edwardsville.....
Dietrich, Philip.....	Freeburg.....	King, Alexander, Jr.....	Cartersville.....
Dillon, John.....	Auburn.....	King, John.....	Cartersville.....
Doe, R. P.....	Glen Carbon.....		
Dodd, Samuel.....	Pottstown.....		
Ebel, August.....	Belleville.....		
Edwards, George W.....	Springfield.....		



*Certificates of Service—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Thomas Jr.	Peru	Raber, Louis	Caseyville
John	Galva	Radford, James W.	Cuba
Louis	Belleville	Radford, W. T.	Bloomington
		Rahaur, Michael	Pawnee
n, James	Fairbury	Redyard, John	Odin
, Charles L.	Galva	Reelse, William M.	Roanoke
, William H.	Hallidayboro	Reid, A. B., Jr.	Duquoin
Jacob H.	Pottstown	Rennard, James E.	Westville
William	Wanlock	Reum, Charles H.	Sorento
, Adolph	Kewanee	Rice, B. F.	Harrisburg
Benjamin	Rentchler	Richmond, Edward B.	Winchester
William	Virdeu	Rieger, John C.	Pinckneyville
erg, Eric	Galva	Riley, Michael	Westville
		Roach, Samuel	Tamara
		Rogers, George	Sunfield
		Rogers, Henry	Braidwood
		Rude, Edmond	DeSota
ll, Robert	Yates City		
ws, George	Duquoin	Sallade, George A.	Chatham
, Daniel	Spring Valley	Sanson, T. J.	Carterville
ws, C.	Marion	Sawyers, Joseph	Coal City
ws, Wm. G.	Bartonville	Schmachner, Charles	Marissa
, Edward	Spring Valley	Schramm, Charles	Belleville
ll, Fred	Peoria	Seebach, Joseph	Spring Valley
ster, Thomas	Muddy Valley	Sexton, LaFayette	Dawson
ald, William H.	Pana	Seymour, A. J.	Fredonia
n, John	Pleasant Plains	Sheppard, W. C.	Marquette
len, W. M.	Danville	Shurm, Fred	Gardner
rthy, G. A.	Smithboro	Smith, Geo. W.	Virginia
, T. M.	Tamara	Sorrells, D. H.	Ashland
John	Spring Valley	Sowarby, Miles	Willisville
Wm.	Streator	Stoker, Edward	Bartonville
on, Archie	Oglesby	Streck, William	Belleville
ord, E. A.	Kewanee	Stroud, William	Worden
, James H.	Galva	Struck, Carl	Springfield
		Stuart, John	Oglesby
mbrose	Barclay		
ohn H.	Bunker Hill	Tanner, Henry	Pinckneyville
, J. W.	Sparta	Taylor, Benjamin	Bartonville
son, George A.	Cuba	Taylor, Willard W.	Tamara
John E.	Galva	Tefft, Ernst	Girard
		Telfer, John K.	Morris
, David	Rentchler	Thome, Martin	Martinville
, Samuel	Mascontah		
Aug.	Kangley	Wallace, Harry G.	East Peoria
e, Benjamin	Streator	Warner, Andrew M.	Wenona
er, William	Catlin	Waymire, James	Assumption
		Wertwood, Edward	Birkner
r, John M.	Equality	Wheatley, Rolley	Duquoin
harles	Marseilles	White, Henry	Riverton
gast, James	Soperville	Williams, Huster	Spaulding
s, William	Hallidayboro	Williams, Stephen P.	Wyoming
Joseph	Farmington	Williams, Watson	Barclay
Thomas H.	Farmington	Willis, Harry	New Castle
Oliver	Worden	Wood, Daniel A.	Colfax
d, H. C.	Lewistown	Woolbright, D. A.	Centralia
tt, T. M.	Niantic	Wonnes, Joseph	Birkner
		Wormack, Charles A.	Glen Carbon
Nevel	Dubois		
A. T.	Sato	Zeigler, John	Iles Junction



## MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange. Those by "d" are deceased.

Name.	Postoffice.	Name.	Postoffice.
Adams, Alexander	Carterville	Bost, Lock	Pana
Adams, William M.	Centralia	Bouer, Benj. F.	Herrin
Adrien, Charles H.	Hanna City	Bowen, Gwilym	Herrin
Allen, Ben	Virden	Bowen, Melvin I.	Blue Mound
Alexander, John	Cable	Bowie, Robert	Braidwood
Alexander, David H.	Pinckneyville	Bowman, Jacob	Salem
Amberger, Joseph	Chatham	Royer, John	Fairmount
Andree, John W.	Greenview	Bracewell, Warren	Danville
Anderson, James	Marion	Brennan, Patrick	Toluca
Andrew, Thomas	Oglesby	Brennan, John E.	Virden
Andrew, Thomas	Oglesby	Brennan, George	Caseyville
Archibald, George	Green Kluge	Brewer, Emery A.	Mt. Pulaski
Armstrong, George	Riverton	Brod, Peter A.	Odin
Argyle, Joseph	Coal City	Brooks, Mac	Pleasant Plains
Arnold, Stephen	Oglesby	Brown, Ben F.	Bryant
Asbery, E.	Salem	Brown, Leslie L.	Peoria
Asbery, J. B.	Salem	Brown, Mathew	Springfield
Atkinson, John G.	Cable	Brown, Archibald	Streator
Avery, William	Belleville	Brooks, Peter	Taylorville
		Bryan, William	Virden
		Bullough, James	Girard
Back, Robert	Farmington	Bundy, John	Streator
Baker, Charles	Centralia	Bumgartner, Andrew J.	Barclay
Baker, Sherrard	Gillespie	Burgess, Wm. W.	Johnson City
Baker, Robert	Auburn	Burke, John	Westville
Baker, Samuel G.	Auburn	Burnett, J.	Hallidayboro
Baldwin, J. F.	Equality	Burnett, Thomas	Hallidayboro
Barker, John	Centralia	Burns, James, Sr.	Springfield
Barkley, George	Greenview	Burns, J.	Spring Valley
Barlow, Harry	Lake Creek		
Barrowman, Wm. T.	De Soto	Campbell, Robert	Witt
Bauder, Fred	Herrin	Campbell, James	Assumption
Baugh, William	Dawson	Campbell, Edward	Pekin
Beecham, William	Cardiff	Cannon, John	Marquette
Beekman, Theodore	Glen Carbon	Capet, Moses	Coal City
Beggs, David	Fairbury	Cappin, Aaron	Wenona
Bell, Arthur	Carterville	Carison, Andrew	Colfax
Bell, William	Streator	Carr, J. W.	Odin
Berry, W. C.	Staunton	Carroll, Anthony W.	Gillespie
Betson, Robt.	Farmington	Carter, James	LaSalle
Bettison, William	Canton	Carter, Samuel	Braceville
Biehl, Charles	Belleville	Carterell, Claude	Herrin
Bigelow, George	Spaulding	Caryion, J.	Oglesby
Blair, Herbert M.	Centralia	Case, William	Diamond
Bluefield, Charles	Coal City	Casey, James	Selhrtown
Blakemore, George	Streator	Casey, John	Williamsville
Blenkinsopp, Thomas, Jr.	Cable	Cashen, W. F.	Lincoln
Blue, J. W.	Grape Creek	Castillo, Henry	Pana
Booth, Enoch	Springfield	Chadderton, John	Lenz Station
Borg, Frank	Mt. Olive		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
ey, James	Wenona	Forsyth, Hugh	Marissa
William T	Ava	Fox, John	Elmwood
Valter	Lebanon	Frank, Anton	Freeburg
Robert	Farmington	Fremgen, C. J.	Glen Carbon
oseph B.	Hornsbey	Fremgen, C. W.	Glen Carbon
J. E., Jr.	Murphysboro	Frond, Isaac	Taylorville
gham, David	Carlinville	Fryer, Alfred	Springfield
ey, James, ex	Wenona		
Charles H.	Hanna City		
ly, Terrance J.	Assumption	Gahagan, Frank	Harrisburg
William	Duquoin	Galbraith, Patrick	Coal City
lijah	Wanlock	Galvin, Martin	Assumption
Thomas	Belleville	Gallagher, J. M.	Cartersville
Thomas	Belleville	Galligan, Michael	Herrin
Moses	Athens	Gastenecker, William	Troy
Henry, ex	Pana	Gebaur, Joseph	Glen Carbon
William	Duquoin	Geddis, Hamilton A.	Chatham
Lawson	Taylorville	Getteman, L.	Centralia
Thomas	Johnson City	Ghebandy, Honore	Westville
ghton, Edward	Belleville	Gillespie, John	Divernon
E.	Centralia	Glover, Richard	Belleville
ill M.	Edwardsville	Gloss, Michael	Gardner
ng, J. M.	East Peoria	Goehe, William	Staunton
ns, Ross	Danville	Gosnell, Ira	Herrin
		Grabsuck, Emile	Gardner
		Graham, L. A.	Bloomington
William	Springfield	Gramlich, Fred W.	Belleville
Charles	Odin	Gray, Alexander	Gillespie
John	Kingston Mines	Gray, Henry	Athens
Andrew	Lanton	Gray, William	Streator
Frederick	Virde	Green, Wm. H.	Belleville
Ed, Edw.	Herrin	Green, J. W.	Springfield
John	Belleville	Greenan, John	Coal City
Emmer E.	Astoria	Gregor, Charles	Springfield
George	Springfield	Griffin, John B.	Niantic
Thomas	Nilwood	Griffith, Peter	Paisley
William	Streator	Griffiths, Evan	St. David
William H.	Streator	Griffith, David	Centralia
ackson	Athens	Groom, Isaac	Belleville
William	Streator	Guy, John	Streator
John	Taylorville		
n, Forest W.	Sandoval	Haddow, Thomas	Pana
William D.	Sandoval	Hardman, J. J.	Auburn
ouis B.	Taylorville	Harris, Wm.	Hallidayboro
J.	Roanoke	Harrison, James	Athens
s, William E.	Rentchler	Harrison, John	Odin
J. G.	Sparta	Haun, George	Litchfield
on, Wm. F.	Athens	Hamilton, David	Assumption
H. N.	East Peoria	Hampton, Harry	O'Fallon
Charles	Harrisburg	Handwright, J.	Virde
P. J.	Westville	Haisfield, Aaron	Oglesby
Jonathan, Sr.	LaSalle	Hart, Chas. J.	Virde
l. W.	Danville	Harron, Walter	Sorento
William C.	Centralia	Haselton, F.	Springfield
		Harvey, C. M.	Williamsville
Is, Morgan	Mt. Olive	Hawkins, Sidney	Belleville
William	Mt. Olive	Hayden, G. S.	Wenona
Charles R.	Pana	Hayes, Webster	Glen Carbon
Thomas	Streator	Hanson, Charles	Danville
s, Edward R.	Hallidayboro	Hardin, Hiram H.	Divernon
Edward J.	Pekin	Harvey, Frank	Springfield
Gwilym I.	Duquoin	Haskins, Joseph	Catin
		Hillery, T.	Sherrard
		Haywood, Joseph	Centralia
		Hebenstreet, J. A.	Staunton
James	Marissa	Hellery, G. M.	Dunfermline
Walter	Barclay	Hemmersbach, Peter	Farmington
John H.	Springfield	Henley, J. H.	Odin
Henry	Staunton	Henderson, Alexander	Springfield
F.	Staunton	Henderson, J.	Spaulding
ham, John E.	Peoria	Herbert, Albert W.	Athens
ogan	Johnson City	Hexter, John	Freeburg
Harry	Petersburg	Herzog, W.	Glen Carbon
Charles	Pana	Hines, William	Rutland
John	Duquoin	Hippard, W. J.	Belleville
in	Tilden	Hodder, Jacob	Norris

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Hoooper, Geo.	Winchester	Lettsom, Wm.	Seneca
Houston, Robert J.	Lebanon	Linton, Quincy M.	Gillespie
Holcomb, Reuben	Westville	Lehwald, Herman	Springfield
Holden, Andrew	Coal City	Lloyd, Rowland R.	Barclay
Hopkins, Reese	Litchfield	Loeffler, Anton	LaSalle
Horn ng, E. E.	Harrisburg	Longshore, Harry A.	Duquoin
Howell, J.	Cartersville	Lockhart, James M.	Sunfield
Howells, George	Staunton	Lore, William	Springfield
Hoye, William	Braidwood	Lorden, Michael	Centralla
Honbuan, M.	Herrin	Lumaghi, Louis F.	Collinsville
Hughes, John	Decatur	Lyons, Mark	Lincoln
Hutchinson, Ralph	Barclay		
Irrers, Daniel	Mt. Olive	Malcor, Henry	Riverton
		Manees, Charles	Centralla
Jackson, John	Marion	Mann, Jacob	Mascoutah
James, Jonah	Grape Creek	Markel, Albert	Hillsboro
Jaques, Charles	Riverton	Mason, Myrick	LaSalle
Jarrell, Edward	Harrisburg	Martin, Samuel	Glen Carbon
Jasper, John	Duquoin	Martin, William	LaSalle
Jenkins, Richard	LaSalle	Maggs, Jacob	Danville
Jenkins, T. C.	Murphysboro	Massie, Alfred N.	Belleville
Jenninns, Wm. M.	Athens	Massie, J. G.	Belleville
Jeten, T. F.	Roanoke	Matthews, John E.	Riverton
Johnson, David	Oglesby	Merkel, Benj.	Sandoval
Johnston, Samuel	Oglesby	Mayne, Thomas	Glen Carbon
Johnson, James N.	Cartersville	Maynard, Thomas	Wanlock
Jones, Alex	Oglesby	Meyer, B.	Staunton
Jones, Ben. J., ex.	Coffeen	Meyer, Louis	Breese
Jones, Thomas	Lebanon	Myers, Isaac	Harrisburg
Jones, John	Springfield	Midyett, Jesse	Hallidayboro
Jones, Willis	Herrin	Millett, Thomas	Troy
Jones, Benj. J.	Coffeen	Mitchell, Elijah J.	Farmington
Jones, Morgan	Litchfield	Mitchell, T.	DuQuoin
Jones, Robert R.	Oglesby	Mitchinson, John	Hanna City
Jones, Wm. Hy.	Catin	Middleton, J. L.	Salem
Jones, John O.	Braceville	Miller, Alexander	Ridge Prairie
Jones, David	Westville	Millar, C.	Glen Carbon
Jones, John	Clark City	Miller, John K.	Staunton
Jones, Thomas	Taylorville	Miller, G. W.	Pawnee
Jordan, Robert (d)	Streator	Miller, W. W.	Lincoln
Jordan, Alfred	St. David	Miles, E. E.	Centralla
		Moffat, A. S.	Sparta
Kane, J. M.	Springfield	Monghan, T. P.	Springfield
Kaney, John	Centralla	Monson, Charles	Springfield
Kaveny, John R.	Troy	Montgomery, Wm.	Harrisburg
Kenney, Wm.	Sparland	Moran, Thomas	Assumption
Kepper, Wm.	Peru	Morgan, Daniel S.	Springfield
Kidd, S. A.	Oglesby	Mornkio, Peter	Glen Carbon
Kingsley, G.	Kingston Mines	Mountjoy, John H.	Clark City
Kingsley, T.	Kingston Mines	Morris, James P.	Centralla
Killingworth, Chas. H.	Pinckneyville	Morrell, Fred	LaSalle
Kloever, Matthew	Pana	Morgan, E. T.	Georgetown
Knapp, Charles	Seatonville	Morgan, Joseph	Streator
Knies, Harry	Breese	Morris, John H.	Wenona
Koehler, Charles	Lincoln	Moses, John I.	Johnson City
Kohers, Adam	Breese	Moss, Thomas	Staunton
Kalkmann, Gustav	Marissa	Muentrich, Peter	Staunton
Kortkamp, Karl	Hillsboro	Mulhollen, Peter	Bissell
Kortkamp, Louis	Hillsboro	Mullage, Jos.	Worden
Kosesky, Abel	LaSalle	Muihollan, Joseph	Springfield
Kramer, Frederick	Centralla	Munster, James	Muncie
Kramer, Leo	Mt. Olive	Muir, Andrew	Springfield
Kreppert, William	Springfield	Murphy, John	Braidwood
Krump, Chas	Lebanon	Murphy, Michael	Pana
Kuehnell, August	Braceville	Murrel, Wm.	Westville
		McCall, Maurice R.	Odin
Lamar, Frank	Worden	McCranor, James	Girard
Lamb, George	Springfield	McCrinkle, David	Oglesby
Lasley, Wm	Hallidayboro	McDonald, Wm.	Braidwood
Lawson, John	Cable	McDonald, Archibold	Westville
Lawson, Thomas	Lake Creek	McDull, James	Assumption
Ledford, L.	Ledford	McEwen, Charles	Carbon Hill
		McFadden, Wm	Danville
		McKillop, Donald	Carbon Hill
		McLachlan, Alexander	Springfield
		McLachlan, John	Springfield

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
John.....	Springfield.....	Rankin, Thomas A.....	Westville.....
Alex. C.....	Canton.....	Ready, Thos.....	Springfield.....
Hugh (d).....	Springfield.....	Reareley, G. W.....	Riverton.....
lin, John P.....	Auburn.....	Reid, Andrew.....	Springfield.....
lin, Patrick.....	Chatham.....	Rehr, Charles.....	Belleville.....
George.....	Mascoutah.....	Rennison, Henry.....	St. John.....
ohn.....	Springfield.....	Reynolds, John.....	Streator.....
lin, Wm.....	Duquoin.....	Reynolds, Andrew.....	Danville.....
Wm. F.....	Iles Junction.....	Reynolds, David.....	Muncie.....
ian, Edward.....	Westville.....	Rhodes, D. R.....	Pana.....
		Rhodes, J. L.....	Westville.....
enry C.....	Glen Carbon.....	Rice, Geo.....	Springfield.....
W.....	Glen Carbon.....	Ritson, Hugh.....	Farmington.....
ard O.....	Wolcott.....	Rider, James H.....	Pontiac.....
ren.....	Spaulding.....	Richard, James.....	Belleville.....
	Danville.....	Richardson, Thos.....	Streator.....
	Gillespie.....	Richter, Franz B.....	Springfield.....
William.....	St. David.....	Roberts, Evan.....	Danville.....
Charles L.....	Freeburg.....	Robinson, Thos. J.....	Greenvew.....
Julius.....	Troy.....	Robbins, Aaron.....	Mt. Pulaski.....
Dennis.....	Selbytown.....	Roger, James.....	Virden.....
li W.....	Dunfermline.....	Rolls, James.....	Pana.....
Robert.....	Streator.....	Rolandelly, C. D.....	Clarke City.....
John.....	Bloomington.....	Ross, S. H.....	Gillespie.....
C. K.....	Athens.....	Ross, John H.....	Gillespie.....
les.....	Springfield.....	Rowlands, Iver.....	Virden.....
r.....	Belleville.....	Rude, Michael.....	DeSoto.....
Ferdinand.....	Breese.....		
	Decatur.....	Sauer, G. G. Fred.....	Belleville.....
		Saurs, C.....	Peoria.....
Thomas.....	LaSalle.....	Savage, Mike.....	Lincoln.....
Patrick F.....	Paisley.....	Scattergood, John.....	Barclay.....
iley.....	Harrisburg.....	Schmidt, Conrad.....	Lincoln.....
in.....	Germantown.....	Schmidt, Henry.....	Staunton.....
eter W.....	Springfield.....	Schmidt, A. R.....	Spaulding.....
man W.....	Canton.....	Schrayner, Moses.....	Springfield.....
van.....	Auburn.....	Scott, Wm. J.....	Springfield.....
		Scoby, Ray.....	Gilchrist.....
seph.....	Carbon Hill.....	Sebastain, Charles.....	Freeburg.....
erry.....	Litchfield.....	Seidl, Frank J.....	Sandoval.....
manuel.....	Litchfield.....	Self, J.....	Glen Carbon.....
in.....	Braidwood.....	Secor, T. D.....	Odin.....
bert.....	Tilden.....	Shanahan, Patrick H.....	Gillespie.....
A.....	Roanoke.....	Shuster, Harb C.....	Peoria.....
J.....	Roanoke.....	Shuster, B. J.....	Peoria.....
Robert.....	Roanoke.....	Shaw, Henry.....	Spring Valley.....
orge.....	Herrin.....	Siddall, Edward.....	Streator.....
enjamin.....	Kangley.....	Siddall, John W.....	Streator.....
ard.....	Central City.....	Siddall, James.....	Streator.....
W.....	Spring Valley.....	Sine, C. A.....	Herrin.....
John L.....	Harrisburg.....	Smith, Geo. A.....	Sandoval.....
elix.....	Danville.....	Smith, Geo. T.....	Dawson.....
ohn W.....	Farmington.....	Smith, Henry.....	Smithton.....
dward.....	Coal City.....	Smith, William H.....	Taylorville.....
muel.....	Coffeen.....	Smith, John P.....	Glen Carbon.....
d W.....	Springfield.....	Smith, James.....	Streator.....
bert H.....	Edinburg.....	Smith, Benjamin.....	Canton.....
	Belleville.....	Smith, Harry.....	Troy.....
	Hanna City, R. R.,	Smith, John H.....	Herrin.....
	No. 1.....	Smith, William.....	Belleville.....
n B.....	Marissa.....	Smith, Holden J.....	Centralia.....
n.....	Braceville.....	Smith, Matt.....	Centralia.....
omas.....	Mt. Olive.....	Sneddon, Michael.....	Chatham.....
Edward.....	Centralia.....	Sneddon, George.....	Chatham.....
		Snyder, Henry.....	Herrin.....
		Sollis, John.....	Centralia.....
ard.....	Bloomington.....	Southworth, Andrew P.....	Belleville.....
		Spiller, George.....	Johnson City.....
		Spies, Alfred.....	Braceville.....
		Spies, E.....	Braceville.....
		Spies, William.....	Braceville.....
olph.....	Carlville.....	Stafford, Frank.....	Lebanon.....
ge.....	Springfield.....	Steel, Daniel.....	Collinsville.....
mary.....	Pinckneyville.....	Steele, D.....	Centralia.....
	Carbon Hill.....	Steel, Neal.....	Centralia.....
	Harrisburg.....	Steans, James.....	Hallidayboro.....

*Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Stearns, John	Hallidayboro	Ward, Robert, ex	Streator
Stoneburner, L. L.	Sorento	Ward, Wilson	Paisley
Slow, Michael	Streator	Wardell, John	Marion
Steiber, Anton	Glen Carbon	Warrington, Frank	Divernon
Steines, Benjamin	Willisville	Watson, Thomas	Central City
Stens, Adolph	Auburn	Watson, John	Warden
Stevens, Walter	Streator	Wendler, Adelbert	Glen Carbon
Stevens, John	Cuba	Westwood, F. T.	Belleville
Stewart, John T.	Coulterville	Whalen, Michael	Greenridge
Strat, James	Canton	White, Louis	Spring Valley
Stone, Wm.	Sherrard	White, John	Pana
Streitner, J.	Kewanee	White, Wm. H.	Riverton
Stricklin, Wm. H.	Harrisburg	Whitecamper, Louis	Lincoln
		Whitehead, Edward	Farmington
		Wilkinson, Geo. R.	Bissell
Taake, Henry H.	Central City	Wetherell, James	Ladd
Tauble, E. E.	Hillsboro	Wigham, Wm. G.	Sparta
Thaine, James	Litchfield	Willard, Charles S.	Glen Carbon
Thom, John	Coal City	Williams, James	Oglesby
Thomas, John R.	Spring Valley	Williams, T. J.	Cardiff
Thomas, W. J.	Spring Valley	Williams, Anthony	Centralia
Thompson, Wm.	Mt. Olive	Williams, William H.	Edinburg
Thorunt, Joseph, Sr.	Trenton	Williamson, Jacob H.	Bissell
Thursh, David Z.	Hanna City	Williamson, Jacob	Bissell
Thursh, David S.	Hanna City	Wilson, Henry, ex.	Pana
Thomas, David	Canton	Wilson, J. M.	Springfield
Titler, William L.	O'Fallon	Williams, Wm. E.	Streator
Tompkins, Frank	St. David	Williams, Thos.	Kinmundy
Towers, Wm.	Zeigler	Wilson, Henry	Pana
Tregoning, Walter	Cartersville	Winterbottom, John	Sparta
Turner, Daniel	Thayer	Winterbottom, J. G.	Sparta
		Wonderlick, John	Marissa
Valew, Edward	Glen Carbon	Wood, William	Streator
Vallow, Ellis	Kinmundy	Worthington, Hillard	Hallidayboro
Vit, Charles	Litchfield	Wright, David	Carlinville
		Wright, William C.	Centralia
Waite, Walter	Spring Valley	Yemm, William	Gillespie
Walker, James	Marion	Young, Sidney J.	Canton
Wall, J. E.	Divernon		
Wallace, John	Cartersville		
Ward, John G.	Streator	Zink, P. J.	Belleville

## MINE EXAMINERS, CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Arnold, Stephen	Kangley	Gray, William	Streator
		Griffin, John	Niantic
Bagshaw, George W.	Virden		
Blakeman, George	Streator	Hall, John Herbert	Minonk
Borg, Frank	Mt. Olive	Hoesfield, Aaron	Oglesby
Boulton, Henry	Coal City	Hornanor, Paul	Lincoln
Bough, William	Dawson	Hughes, John	Decatur
Brooks, Peter	Taylorville	Humphreys, William	Clarke City
Brown, John	Streator		
		Jenkins, Rutland	LaSalle
Caveny, Edward	Pana		
		Kneper, David	Girard
Davis, Thomas	Nilwood		
Franzen, Mat.	Girard		

*Mine Examiners, Certificates of Service—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
ps, August .....	Girard .....	Schultz, John .....	Diamond .....
camp, Carl .....	Hillsboro .....	Shaw, Francis M. ....	Hallidayboro .....
camp, Lewis .....	Hillsboro .....	Shopman, John .....	Mt. Olive .....
		Siebenhawer, Wm .....	LaSalle .....
s, Edward .....	Ladd .....	Sloufskie, Hermann .....	Decatur .....
		Stewart, Samuel .....	Coal City .....
ett, Edward A .....	Bartonville .....	Taylor, Samuel .....	O'Fallon .....
tgomery, John H. ....	Gardner .....	Thomas, David .....	Canton .....
ney, Arthur .....	Kangley .....		
onald, M. E .....	LaSalle .....	Ward, Robert .....	Streator .....
		Wilson, Archie .....	Clarke City .....
, S. H. ....	Girard .....	Wilson, John .....	Gardner .....
		Wood, Henry .....	Streator .....
midt, Ernest .....	Mt. Olive .....		



SIXTH ANNUAL REPORT  
OF THE  
Bureau of Labor Statistics  
OF THE  
ILLINOIS  
Free Employment Offices

FOR THE  
Year Ended October 1, 1904.

( Established August 2, 1899.)

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DAVID ROSS, Secretary, Springfield.



SPRINGFIELD:  
ILLINOIS STATE JOURNAL CO., STATE PRINTERS.  
1905.





## INTRODUCTION.

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The original law creating free employment offices in this State came effective July 1, 1899. In addition to the equipment of offices to be managed and controlled at the expense of the State, it prescribed certain regulations relating to the operation of private employment agencies, and requiring from each agency a license fee \$200.00 per annum, said license to be issued by the Secretary of State.

The legislature, however, had made no provision to meet the expenses incident to its enforcement, and as there was a general protest on the part of private employment agents, against the payment of what they considered an exorbitant, if not a prohibitory fee, but the effort was made to force compliance beyond an agreement to have suit brought to test its constitutionality. Pending a decision in the case, the law was practically a dead letter. An opinion was rendered until the April term, 1903, of the Supreme Court, when it was declared unconstitutional, because of the provisions of section which prohibited the superintendents in charge of the free employment offices from sending help to any one whose employes were on strike or locked out. The court held the direct effect of that discrimination was to deny to certain people the benefit of the law and that reason alone declared the entire act null and void. Immediately following this decision, the legislature being in session, a new law was enacted which eliminated the section objected to by the court, reduced the license fee from \$200.00 to \$50.00 per annum, giving the bureau supervision over private employment agencies, and authorizing the Commissioners of Labor to apply the fees collected from licenses, or such amount thereof as might be necessary, to enforce compliance with the law. So far, therefore, as the private employment agencies are concerned they have been subject to the law's requirements only since May 11, 1903, the date of the amended act.

In the meantime the commissioners have spared no effort to force observance of its provisions. The record since made is commendable and sustains the change in the means and manner of its enforcement. Prior to the bureau's supervision, only a few agencies were licensed and the business, as a rule, was conducted in violation of law and without any inspection on the part of the State.

The opportunity for the employment agent is naturally found in the large cities. Of the 200 licensed agencies in the State, all, with the exception of a dozen, are located in the city of Chicago. It was a consideration of this fact that caused the Commissioners of Labor to appoint and authorize George W. Geary, Superintendent of the South Side Free Employment office, to act for them in the matter of issuing licenses to private employment agents operating in that city, and in all prosecutions, incident to the enforcement of the law. Mr. Geary is a native of Chicago, and by reason of his long connection with organized labor, is thoroughly familiar with the haunts and habits of the average employment agency. The Commissioners of Labor feel a pleasure in thus acknowledging the value of his services and cheerfully attribute to his vigilance and untiring industry the credit resulting from a fearless and strict enforcement of the law.

Since the bureau obtained supervision over the private employment agencies, they have been required to conduct their business in conformity with the letter of the statute. This work necessarily involves an examination at frequent intervals of the records kept by them, and of arrests and prosecutions instituted either to compel those operating without a license to comply with the law, or in the other numerous class of cases, where the licensed agency had failed, whether purposely or not, to observe its provisions. For these and other causes 361 suits have been prosecuted and convictions in nearly every case obtained. Several licenses have been revoked where it appeared that the principal object in securing them was to use it as a shield in perpetrating fraud. Under the law, licensed employment agents are permitted to charge a registration fee not to exceed \$2.00, which must be returned to the parties paying, on failure to secure employment. By virtue of this provision, the licensed employment agencies of Chicago have been compelled to return registration fees, amounting in the aggregate to \$3,522.00. It is needless to say that this sum of money was returned to the poor and unsuccessful applicants only after the threat of a vigorous criminal prosecution. Among the more salutary effects of the law's enforcement has been the elimination of the padrone system. The accomplishment of this result, if nothing else had been done, confirms the wise and beneficent purpose of the law, and fully justifies and rewards the expenditure of time and money in its enforcement.

**SIXTH ANNUAL REPORT**  
OF THE  
**Illinois Free Employment Offices,**  
**1904.**

(ESTABLISHED AUGUST 2, 1899.)

This is the sixth annual report of the Illinois Free Employment offices for the year ended October 1, 1904.

The result of the work of the four offices from their organization to October 1, 1904, is shown by years in the following table:

YEAR.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
1899 *	13,097	6,497	6,600	10,370	3,873
1900	37,285	31,218	6,067	35,542	4,324
1901	27,605	23,996	3,609	28,124	4,128
1902	44,900	40,181	4,719	47,497	7,316
1903	43,510	39,227	4,283	47,559	8,332
1904	37,493	31,724	5,769	36,710	4,986
Total	203,890	172,843	31,047	205,802	32,959

\* Nine weeks.

At the close of the sixth year a total of 203,890 persons had applied for employment; of these, 172,843 or 84.77 per cent were secured positions; during the same period, 205,802 applications were filed for help; of this number, 83.99 per cent were supplied. These percentages are almost identical with those at the close of the fifth year.

Following is the record of the four offices for the year ended October 1, 1904.

The combined work of the four offices is here presented in condensed form. The total number of positions secured to applicants for employment is nearly 20 per cent less than last year.

TABLE 1—Showing the Combined Business of the Four Offices for the Year.

OFFICES.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
North Side Office—Males .....	4,162	4,006	156	5,243	1,237
North Side Office—Females .....	3,947	3,770	177	4,665	886
Totals .....	8,109	* 7,776	333	9,908	2,122
South Side Office—Males .....	8,031	7,380	651	8,144	764
South Side Office—Females .....	4,964	4,748	216	5,642	894
Totals .....	12,995	12,128	867	13,786	1,658
West Side Office—Males .....	6,976	3,920	3,056	3,986	66
West Side Office—Females .....	2,593	1,831	762	2,544	713
Totals .....	9,569	† 5,751	3,818	6,530	779
Peoria Office—Males .....	4,594	4,099	495	4,252	133
Peoria Office—Females .....	2,226	1,970	256	2,234	264
Totals .....	6,820	6,069	751	6,486	437
Total Males—Four Offices .....	23,763	19,405	4,358	21,625	2,220
Total Females—Four Offices .....	13,730	12,319	1,411	15,085	2,766
Grand totals .....	37,493	‡ 31,724	5,769	36,710	4,986

\* Of this number, 84 males and 122 females, a total of 206, were secured positions on applications filed last year.

† Of this number, 8 males and 1 female, a total of 9, were secured positions on applications filed last year.

‡ Of this number, 92 males and 123 females, a total of 215, were secured positions on applications filed last year.

The grand totals of this table show the registered number of applicants for employment to be 37,493, and that 36,710 employers registered as seeking to employ help. The notes at the bottom of this table show that 215 applications for employment were brought forward from last year; of these, 92 were males and 123 females. These applications increase the number to a total of 37,708. Considering this total number it will be seen that 23,855 or 63.26 per cent were males, and 13,853 or 36.74 per cent were females. Of the whole number of applicants for employment, positions were secured for 31,724 or 84.13 per cent; of these, 19,405 or 81.34 per cent were males, and 12,319 or 88.93 per cent were females.

The applications of employers filed during the year, desiring to employ help, number 36,710; of this number 21,625 or 58.91 per cent were for males and 15,085 or 41.09 were for females. It is found that of the number of employers applying for help 86.42 per cent were

supplied, of these, 89.73 per cent were males and 81.66 per cent were females. This is a larger percentage of both males and females than shown for last year.

The percentages of each office and the four offices is presented in the following table:

TABLE 2—*Percentages of Positions Secured and Percentages of Help Furnished, both Male and Female.*

OFFICES.	PERCENTAGE OF POSITIONS SECURED APPLI- CANTS FOR EMPLOYMENT.			PERCENTAGE OF APPLICA- TIONS FOR HELP FURNISHED.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
North Side Office.....	96.25	95.57	95.89	76.41	80.81	78.48
South Side Office.....	91.89	95.65	93.33	90.62	84.15	87.97
West Side Office....	56.19	70.61	60.10	98.34	71.97	88.07
Peoria Office.....	89.23	88.50	88.99	96.40	88.18	93.57
The four offices.....	81.66	89.72	84.61	89.73	81.66	86.42.

The percentages here shown are for positions secured to applicants for employment registered during the fiscal year, while the number brought forward from last year is included in the percentages of the applications for help furnished.

Referring to the Chicago offices, it will be seen that the North Side office furnished the largest percentage of positions secured for males, and that the South Side office slightly the largest percentage for females. The West Side office supplied the largest per cent of males to those desiring help, and the South Side office the largest per cent of females; in this connection the Peoria office outranks all the other offices in percentage of females, and is second only to the West Side office in the percentage of males; it also shows the largest percentage of the four offices for both sexes.

The work of the four offices in placing applicants for employment in positions shows a slight decrease from last year, while for help supplied an equal increase is shown. The following gives the percentages for the two years:

YEAR.	POSITIONS SECURED.			HELP FURNISHED.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
1903 .....	87.23	89.52	88.01	87.94	73.20	82.48
1904 .....	81.66	89.72	84.61	89.73	81.66	86.42

The percentage of positions secured to female applicants for both years exceeds that of males, while for female help supplied to employers it was less than that of males being almost in the same ratio.

#### APPLICATIONS FOR EMPLOYMENT.

The following table gives, for the four offices, for the year the applications for employment by classified occupations:

TABLE 3—*Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Employment.*

#### MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals .....	8,109	12,995	9,569	6,820	37,493
	Males .....	4,162	8,031	6,976	4,594	23,763
	Females .....	3,947	4,964	2,593	2,226	13,730
	Total males .....	4,162	8,031	6,976	4,594	23,763
1	Agents .....		30	2		32
2	Any light work .....			31		31
3	Apprentices .....			34	13	47
4	Architects .....	1				1
5	Artists .....		2	2		4
6	Bakers .....	3	23	18	10	54
7	Barbers .....		6	2		8
8	Barmen .....	53	108	32	109	302
9	Bartenders .....	1	14	23	1	39
10	Bench hands .....			23		23
11	Blacksmiths .....	50	24	20	19	113
12	Blacksmith helpers .....			15		15
13	Boiler makers .....		5	1	1	7
14	Bookbinders .....	2		2		4
15	Bookkeepers .....	3	26	27	10	66
16	Bootblacks .....		46			46
17	Boxmakers .....		33	5		38
18	Boys .....	213		139	6	358
19	Boys, bell .....		14	1	22	37
20	Boys, cash .....		23			23
21	Boys, delivery .....		41		92	133
22	Boys, elevator .....				6	6
23	Boys, errand .....		42	1	33	76
24	Boys, factory .....				28	28
25	Boys, office .....		35	11	9	55
26	Brakemen .....			4	6	10
27	Brass finishers .....			5		5
28	Bricklayers .....			5		5
29	Bridge builders .....			1		1
30	Butchers .....	3	28	6	1	38
31	Butlers .....	10		1		11
32	Cabinet makers .....	4	2	16		22
33	Calcininers .....		2			2
34	Candy makers .....				2	2
35	Canvassers .....	22		3	10	35
36	Carpenters .....	45	48	61	39	193
37	Carpet layers .....		4			4
38	Carriage and wagon washers .....	2	14	5		21
39	Cashiers .....		2	1		3
40	Checkers .....			5		5
41	Cigar makers .....	1		1		2
42	Circular distributors .....			1		1
43	Cleaners, harness .....			2		2

Table 3—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
44	Clerks.....				3	3
45	Clerks, bill.....			2		2
46	Clerks, drug.....		3			3
47	Clerks, dry goods.....		2			2
48	Clerks, general.....		55			55
49	Clerks, grocery.....		24	3	4	31
50	Clerks, hotel.....			3	1	4
51	Clerks, office.....		20			20
52	Clerks, order.....				2	2
53	Clerks, shipping.....		28	10	3	41
54	Clerks, not stated.....	44		242		286
55	Coachmen.....	27	24	13	12	76
56	Coal heavers.....			1		1
57	Coal miners.....				5	5
58	Coal weighers.....				2	2
59	Collectors.....	3	3	19	16	41
60	Compositors.....			2		2
61	Cooks.....	38	252	52	93	435
62	Conductors.....	1		1		2
63	Core makers.....			7		7
64	Dairymen.....				14	14
65	Deckhands.....		2			2
66	Dishwashers.....	42	289	25	59	415
67	Distributors.....				2	2
68	Doormen.....		3			3
69	Draughtsmen.....			5		5
70	Drillpress men.....			50		50
71	Drivers.....	188		188	22	348
72	Electricians.....	5	17	22	3	47
73	Elevatormen.....	11	72	75		158
74	Engineers.....	5	37	50	17	109
75	Factory hands.....	477	195	779	307	1,758
76	Farmers.....	95		4		99
77	Farm hands.....		418	344	161	923
78	Firemen.....	8	43	94	26	171
79	Florists.....		10		1	11
80	Foremen.....			3		3
81	Foundrymen.....		3	3		3
82	Furnace tenders.....			1		1
83	Gardeners.....	9	17	4	14	44
84	Glass workers.....			1		1
85	Guards, railroads.....		2			2
86	Harness makers.....		4	2		6
87	Harvest hands.....				40	40
88	Horseshoers.....	1		2		3
89	Hostlers.....		11	46	4	61
90	Housemen.....	213	481	95	36	825
91	Ice cutters.....				17	17
92	Interpreters.....		2			2
93	Iron workers.....			22	1	23
94	Janitors.....	65	106	73	47	293
95	Kitchen work.....	9	137	11	11	168
96	Laborers.....	1,773	3,313	2,470	2,555	10,111
97	Laborers—railroad.....		236		115	351
98	Lathe hands.....	1		13	1	15
99	Lathers.....			1		1
100	Laundrymen.....		35	8	1	44
101	Linemen—electrical.....			2		2
102	Linemen—not stated.....			1	3	4
103	Locksmiths.....			5		5
104	Machine hands.....	7		124		131
105	Machinists.....	20	37	160	23	240
106	Masons.....	1				1
107	Malsters.....				1	1
108	Metal workers.....	1		9	1	11
109	Millers.....			1		1
110	Millwrights.....		3	7		10
111	Miners.....		17			17
112	Molders.....	1	4	5	8	18
113	Models.....		1			1
114	Nurses.....	2	8	2	3	15
115	Office help.....	9		1	21	31
116	Oilers.....			7		7



Table 3—Continued.

Number	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
117	Packers .....	10	41	57	2	110
118	Painters .....	79	26	32	32	169
119	Paper hangers .....		2	4	1	7
120	Pantrymen .....	1	1	1		3
121	Panwashers .....				3	3
122	Pattern makers .....			6	2	8
123	Pharmacists .....		1		1	2
124	Photographers .....		1	1		2
125	Pinsetters .....		27			27
126	Pipe fitters .....				1	1
127	Plasterers .....		1	4	1	6
128	Plumbers .....		10	4		14
129	Polishers—metal .....		3	1		4
130	Polishers—not stated .....			3		3
131	Porters .....	115	492	179	91	877
132	Pressers .....			2	1	3
133	Pressmen .....	4	2	2		8
134	Printers .....	3	2	11		16
135	Punch press hands .....			34		34
136	Railroadmen .....			5		5
137	Roofers .....				2	2
138	Sailors .....			1		1
139	Salesmen .....	5	17	26	41	89
140	Sawyers .....			5		5
141	Shoemakers .....	1	4	4		9
142	Shovelers .....				34	34
143	Silvermen .....			1		1
144	Solicitors .....		7	17	9	33
145	Steam fitters .....	1	6	6		13
146	Stenographers .....	5	17	9	1	32
147	Stockmen .....	17	182			199
148	Stock keepers .....			67		67
149	Stone cutters .....			2		2
150	Stovemmen .....			1	2	3
151	Tailors .....		3	5		8
152	Teachers .....			1		1
153	Teamsters .....	166	105	129	185	585
154	Telegraphers .....		1			1
155	Time keepers .....			2		2
156	Tinsmiths .....	3	10	13	1	27
157	Tool makers .....			6		6
158	Truckman .....			13		13
159	Upholsterers .....		6	1	1	8
160	Vice hands .....			4		4
161	Waiters .....	22	291	28	26	367
162	Watchmakers .....		1			1
163	Watchmen .....	9	51	82	8	150
164	Wholesale men .....			22		22
165	Window washers .....	162	149	122		433
166	Wood finishers .....			7		7
167	Wood workers .....		2	10	4	16
168	Yardmen .....		88	8	73	167
169	Miscellaneous—not classified .....	90		512		602

## FEMALES.

	Total females .....	3,947	4,964	2,593	2,226	1,373
1	Addressers .....	1		7	6	14
2	Agents .....		1			1
3	Apprentices .....			1		1
4	Attendants .....			1	3	4
5	Bookkeepers .....	5	12	8	14	39
6	Bottle labelers .....			7	1	8
7	Canvassers .....	8		3	12	23
8	Cashiers .....	8	9	13	4	34
9	Clerks .....	14	10	8	16	48
10	Collectors .....					
11	Chambermaids .....	224	406	223	117	966
12	Companions .....	1	4	4		1
13	Cooks .....	356	485	212	80	1,133

Table 3—Concluded.

Number	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
14	Copyists .....			1		1
15	Dayworkers .....	356	184	183	136	859
16	Demonstrators .....			2	3	5
17	Dining room help .....	92		48	178	318
18	Dishwashers .....	243	408	133	156	935
19	Distributors .....				2	2
20	Domestics .....			499		499
21	Factory work .....	85	248	255	156	744
22	Folders, circulars .....			12		12
23	General housework .....	1,695			808	2,503
24	Governesses .....			2		2
25	Hotel help .....				9	9
26	Housekeepers .....	73	101	108	95	377
27	Housework .....		1,524			1,524
28	Janitresses .....	1	1	9	9	20
29	Kitchen help .....	202	305	148	100	755
30	Lady's maid .....		1	1	1	3
31	Laundresses .....	57	140	118	11	326
32	Mail order help .....			2		2
33	Matrons .....	1				1
34	Milliners .....				1	1
35	Nurses .....	96	81	51	23	251
36	Nurse girls .....				31	31
37	Office work .....	16	88	37	76	217
38	Pantry work .....	24	47	27	23	121
39	Proof readers .....			1	1	2
40	Reception service .....			2		2
41	Saleswomen .....		2			2
42	Scrubwomen .....	92	323	220	21	656
43	Seamstresses .....	33	46	17	19	115
44	Second work .....	145	90	33	47	315
45	Silver girls .....				2	2
46	Solicitors .....		2	8	4	14
47	Stenographers .....	13	49	15	30	107
48	Teachers, not stated .....	1				1
49	Typewriters .....			1		1
50	Vegetable cleaners .....				6	6
51	Waitresses .....	102	422	136	13	673
52	Washer women .....				3	3
53	Wrappers .....			9		9
54	Miscellaneous, occupation not stated .....	8		28		36

The 23,763 male applicants are represented in 168 occupations, and the 13,730 female in 53 occupations, making a total of 37,493 applications for positions. Of this number, the North Side office registered 21.63 per cent, the South Side 34.66 per cent, the West Side 25.52 per cent, and the Peoria office 18.19 per cent. The West Side and the Peoria offices show an increase over last year, while the North and South Side offices show a decrease.

## APPLICATIONS FOR HELP.

The applications registered by employers seeking to employ help are given in the following table:

TABLE 4—*Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Help.*

## MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP MADE TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals.....	9,908	13,786	6,530	6,486	36,710
	Males.....	5,243	8,144	3,986	4,252	21,625
	Females.....	4,665	5,642	2,544	2,234	15,085
	Total males.....	5,243	8,144	3,986	4,252	21,625
1	Agents.....		20			20
2	Apprentices.....			1	11	12
3	Artists.....		1			1
4	Bakers.....		19	4	5	28
5	Barbers.....		4	1		5
6	Barnmen.....	53	96	20	106	275
7	Bartenders.....	1	12	3	1	17
8	Blacksmiths.....	61	19	8	15	103
9	Blacksmith helpers.....			3		3
10	Boiler makers.....		5			5
11	Bookkeepers.....	3	8		1	12
12	Bootblacks.....		49			49
13	Boxmakers.....		30	1		31
14	Boys.....	268		70	5	343
15	Boys, bell.....		12		26	38
16	Boys, cash.....		23			23
17	Boys, delivery.....		40		37	127
18	Boys, elevator.....				5	5
19	Boys, errand.....		43	1	33	77
20	Boys, factory.....				31	31
21	Boys, office.....		32	4	9	45
22	Brakemen.....				6	6
23	Brick layers.....	2		2		4
24	Butchers.....	3	22	2	1	28
25	Butlers.....	11				11
26	Cabinet makers.....	2		3		5
27	Can makers.....		2			2
28	Carpet layers.....		3			3
29	Canvassers.....	36		2	10	48
30	Carpenters.....	59	50	9	28	146
31	Carriage and wagon washers.....	2	14	5		21
32	Cashiers.....		2			2
33	Checkers.....			3		3
34	Cigar makers.....	1				1
35	Clerks.....				1	1
36	Clerks, drug.....		3			3
37	Clerks, dry goods.....		2			2
38	Clerks, general.....		11			11
39	Clerks, grocery.....		14		3	17
40	Clerks, office.....		10			10
41	Clerks, order.....				2	2
42	Clerks, shipping.....		21		2	23
43	Clerks, not stated.....	32		9		41
44	Coachmen.....	26	19	4	5	54
45	Coal miners.....				4	4
46	Coal weighers.....				2	2
47	Collectors.....	2	2	2	5	11
48	Cooks.....	46	219	19	69	353
49	Conductors.....	1				1
50	Dairy men.....				13	13
51	Deck hands.....		2			2
52	Distributors.....					
53	Dishwasher.....	46	27	12	60	145
54	Doormen.....					

Table 4—Continued.

Number.	OCCUPATION.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
55	Drivers.....	214		49	17	280
56	Electricians.....	3	8		3	14
57	Elevatormen.....	10	54	4		68
58	Engineers.....	3	21	3	10	37
59	Factory hands.....	584	184	357	282	1,407
60	Farmers.....	116				116
61	Farm hands.....		501	239	148	888
62	Firemen.....	4	28	11	10	53
63	Florists.....		6			6
64	Gardeners.....	8	15		18	41
65	Guards, railroad.....		2			2
66	Harness makers.....		4			4
67	Harvest hands.....				53	53
68	Horseshoers.....	1		1		2
69	Hostlers.....		11	30	4	45
70	Housemen.....	205	429	38	32	704
71	Cullers.....				17	17
72	Interpreters.....		2			2
73	Iron workers.....			6	1	7
74	Janitors.....	60	84	15	29	188
75	Kitchenwork.....	9	131	4	11	155
76	Laborers.....	2,532	3,740	2,307	2,480	11,059
77	Laborers, railroad.....		236		121	357
78	Lathe hands.....	1				1
79	Laundrymen.....		27	2	1	30
80	Linemen, not stated.....				3	3
81	Machine hands.....	3		6		9
82	Machinists.....	32	23	26	9	90
83	Malsters.....				2	2
84	Masons.....	1				1
85	Metal workers.....				1	1
86	Millwrights.....		3	1		4
87	Miners.....		107			107
88	Models.....		1			1
89	Molders.....	6	4		10	20
90	Nurses.....	2	6		2	10
91	Office help.....	1			6	7
92	Packers.....	8	37	2	2	49
93	Painters.....	89	19	7	21	136
94	Paper hangers.....		1	1	1	3
95	Pantrymen.....		1			1
96	Pan washers.....				3	3
97	Pattern makers.....				2	2
98	Pin setters.....		27			27
99	Plasterers.....		1	2		3
100	Plumbers.....		11	1		12
101	Polishers, metal.....		3			3
102	Porters.....	108	437	89	76	710
103	Pressers.....				1	1
104	Pressmen.....	4				4
105	Roofers.....				2	2
106	Salesmen.....	11	11		15	37
107	Shoemakers.....		3			3
108	Shovelers.....				34	34
109	Solicitors.....	12	15	23	9	59
110	Steamfitters.....		6			6
111	Stenographers.....	1	14			15
112	Stock men.....	15	206			221
113	Stock keepers.....			52		52
114	Stovemmen.....				2	2
115	Tailors.....		2			2
116	Teamsters.....	202	93	48	170	513
117	Tinsmith.....	5	10	3		18
118	Upholsterers.....		6	1		7
119	Waiters.....	19	258	7	17	301
120	Watchmen.....	7	40	6	5	58
121	Wholesale men.....			1		1
122	Window washers.....	211	147	120		478
123	Woodworkers.....		2			2
124	Yardmen.....		82	4	7	160
125	Miscellaneous, not classified.....	101		332		433

Table 4—Concluded.

## FEMALES.

Number.	OCCUPATION.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Total females.....	4,665	5,642	2,544	2,234	15,085
1	Addressers.....	2			3	5
2	Agents.....		5			5
3	Attendants.....			2	3	5
4	Bookkeepers.....	2	3		1	6
5	Bottle labelers.....			2	1	3
6	Canvassers.....	9		6	12	27
7	Cashiers.....	1	2		2	5
8	Clerks.....	11	7	3	5	26
9	Chambermaids.....	246	437	167	104	954
10	Companions.....		1	2	3	6
11	Cooks.....	437	551	146	103	1,237
12	Dayworkers.....	355	188	28	94	665
13	Demonstrators.....			5	1	6
14	Dining room help.....	102		55	175	332
15	Dishwashers.....	287	422	110	152	971
16	Distributors.....				2	2
17	Domestics.....			852		852
18	Factory work.....	325	347	273	142	1,087
19	Folders, circulars.....			10		10
20	General housework.....	1,944			1,041	2,985
21	Hotel help.....				4	4
22	Housekeepers.....	57	94	117	73	341
23	Housework.....		1,924			1,924
24	Janitresses.....	1		1	8	10
25	Kitchen help.....	224	319	114	99	756
26	Lady's maid.....				1	1
27	Laundresses.....	59	156	109	5	329
28	Matrons.....	1				1
29	Nurse girls.....				26	26
30	Nurses.....	90	79	36	15	220
31	Office work.....	2	59	5	22	88
32	Pantry work.....	27	48	16	22	113
33	Saleswomen.....		6			6
34	Scrubwomen.....	106	344	212	21	683
35	Seamstresses.....	47	43	63	15	168
36	Second work.....	170	104	21	43	338
37	Silver girls.....				2	2
38	Solicitors.....	12	10	18	3	43
39	Stenographers.....	2	11	6	7	26
40	Vegetable cleaners.....				7	7
41	Waitresses.....	148	482	132	13	775
42	Washer women.....				2	2
43	Wrappers.....			8		8
44	Miscellaneous occupation not stated.....	18		25		43

During the year the total number of applications for help was 36,710. The number registered for male help was 21,625 represented in 123 occupations, while 15,085 were for female help distributed in 43 occupations.

The North Side office registered of this total number 26.99 per cent, the South Side 37.55 per cent, the West Side 17.79 per cent and the Peoria office 17.67 per cent. This is a decrease in percentage compared with last year for the North and South Side offices and a slight increase for the West Side and Peoria offices, the largest increase being in the Peoria office.

## POSITIONS SECURED.

The following table accounts for the results derived from the applications recorded in the two preceding tables:

TABLE 5—*Work of all the Offices—Three in Chicago and One in Peoria—Securing Positions.*

## MALES.

Number .....	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Totals .....	7,776	12,128	5,751	6,089	31,724
	Males .....	4,006	7,380	3,920	4,099	19,405
	Females .....	3,770	4,748	1,831	1,970	12,319
	Total males, .....	4,006	7,380	3,920	4,099	19,405
	Males .....	3,922	7,380	3,912	4,099	19,313
	Positions filled from previous applications .....	84		8		92
1	Agents .....		16			16
2	Apprentices .....			1	11	12
3	Artists .....		1			1
4	Bakers .....		19	4	5	28
5	Barbers .....		4	1		5
6	Barnmen .....	50	94	20	105	269
7	Bartenders .....	1	12	1	1	15
8	Blacksmiths .....	50	17	6	15	88
9	Blacksmith helpers .....			3		3
10	Boiler makers .....		5			5
11	Bookkeepers .....	3	8		1	12
12	Bootblacks .....		44			44
13	Boxmakers .....		30	1		31
14	Boys .....	194		65	5	264
15	Boys, bell .....		11		22	33
16	Boys, cash .....		21			21
17	Boys, delivery .....		38			122
18	Boys, elevator .....				84	5
19	Boys, errand .....				30	71
20	Boys, factory .....		41		26	26
21	Boys, office .....		27	4	9	40
22	Brakemen .....				6	6
23	Bricklayers .....			2		2
24	Butchers .....	2	22	2	1	27
25	Butlers .....	7				7
26	Cabinetmakers .....		1	3		4
27	Calclminers .....		2			2
28	Carpet layers .....		3			3
29	Canvassers .....	18			10	28
30	Carpenters .....	45	41	9	25	120
31	Carriage and wagon washers .....	2	13	4		19
32	Cashiers .....		2			2
33	Checkers .....			3		3
34	Cigarmakers .....	1				1
35	Clerks .....				1	1
36	Clerks, drug .....		3			3
37	Clerks, dry goods .....		2			2
38	Clerks, general .....		11			11
39	Clerks, grocery .....		14		3	17
40	Clerks, office .....		10			10
41	Clerks, order .....				2	2
42	Clerks, shipping .....		21		2	23
43	Clerks, not stated .....	31		9		40
44	Coachmen .....	26	18	4	5	53
45	Coal miners .....					4
46	Coal weighers .....					4
47	Collectors .....	2	2	2		6
48	Cooks .....	32	213	16		261
49	Conductors .....	1				1
50	Darymen .....					13

Table 5—Continued.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
51	Deck hands.....		2			2
52	Dishwashers.....	42	271	12	59	384
53	Distributors.....				2	2
54	Doormen.....		3			3
55	Drivers.....	182		47	17	246
56	Electricians.....	2	7		3	12
57	Elevatormen.....	10	54	3		67
58	Engineers.....	1	20	3	9	33
59	Factory hands.....	461	184	357	269	1,271
60	Farmers.....	84				84
61	Farm hands.....		391	224	145	760
62	Firemen.....	4	28	11	10	53
63	Florists.....		6			6
64	Gardeners.....	7	15		13	35
65	Guards railroad.....		2			2
66	Harness makers.....		4			4
67	Harvest hands.....				40	40
68	Horseshoers.....	1		1		2
69	Hostlers.....		11	30	4	45
70	Housemen.....	193	427	36	31	687
71	Ice cutters.....				17	17
72	Interpreters.....		2			2
73	Iron workers.....			6	1	7
74	Janitors.....	54	83	14	29	180
75	Kitchenwork.....	9	130	4	11	154
76	Laborers.....	1,737	3,285	2,308	2,306	9,724
77	Laborers, railroad.....		236		115	351
78	Lathe hands.....	1				1
79	Laundrymen.....		27		1	28
80	Linemen, not stated.....				3	3
81	Machine hands.....	2		4		6
82	Machinists.....	19	23	25	9	76
83	Malsters.....				1	1
84	Masons.....	1				1
85	Metal workers.....				1	1
86	Millwrights.....		3	1		4
87	Miners.....		17			17
88	Models.....		1			1
89	Molders.....		4		8	12
90	Nurses.....	2	6		2	10
91	Office help.....	1			6	7
92	Packers.....	8	37	2	2	49
93	Painters.....	78	18	6	21	123
94	Paper hangers.....		1	1	1	3
95	Pantrymen.....					1
96	Pan washers.....				3	3
97	Pattern makers.....				2	2
98	Pin setters.....		27			27
99	Plasterers.....		1	2		3
100	Plumbers.....		10	1		11
101	Polishers, metal.....		3			3
102	Porters.....	102	435	86	76	699
103	Pressers.....				1	1
104	Pressmen.....	4				4
105	Roofers.....				2	2
106	Salesmen.....	3	9		15	27
107	Shoemakers.....		3			3
108	Shovelers.....				34	34
109	Solicitors.....		6	14	9	29
110	Steam fitters.....		1			1
111	Stenographers.....	1	14			15
112	Stock men.....	12	174			186
113	Stock keepers.....			50		50
114	Stovemmen.....				2	2
115	Tailors.....		2			2
116	Teamsters.....	162	91	48	168	469
117	Tinsmiths.....	3	8	2		13
118	Upholsterers.....		6			6
119	Waiters.....	16	257	7	17	297
120	Watchmen.....	7	40		5	52
121	Wholesale men.....					

Table 5—Concluded.

OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
	North Side.	South Side.	West Side.	Peoria.	
Window washers.....	161	144	120	.....	425
Wood workers.....	.....	2	.....	.....	2
Yardmen.....	.....	82	4	72	158
Miscellaneous, not classified.....	87	.....	321	.....	408

## FEMALES.

Total.....	3,770	4,748	1,831	1,970	12,319
Females.....	3,648	4,748	1,830	1,970	12,196
From previous applications.....	122	.....	1	.....	123
Addressers.....	1	.....	.....	3	4
Attendants.....	.....	.....	1	3	4
Bookkeepers.....	2	2	.....	1	5
Bottle labelers.....	.....	.....	2	1	3
Canvassers.....	.....	.....	3	12	15
Cashiers.....	1	2	.....	2	5
Clerks.....	7	7	1	5	20
Chambermaids.....	207	404	161	104	876
Companions.....	.....	1	2	3	6
Cooks.....	339	458	115	88	1,000
Dayworkers.....	341	184	28	94	647
Demonstrators.....	.....	.....	.....	1	1
Dining room help.....	84	.....	46	174	304
Dishwashers.....	231	403	103	151	888
Distributors.....	.....	.....	.....	2	2
Domestics.....	.....	.....	478	.....	478
Factory work.....	71	237	182	142	632
Folders, circulars.....	.....	.....	7	.....	7
General housework.....	1,634	.....	.....	300	2,434
Hotel help.....	.....	.....	.....	4	4
Housekeepers.....	44	75	71	73	263
Housework.....	.....	1,486	.....	.....	1,486
Janitresses.....	1	.....	1	8	10
Kitchen help.....	193	304	106	99	702
Lady's maid.....	.....	.....	.....	1	1
Laundresses.....	50	137	103	5	295
Matrons.....	1	.....	.....	.....	1
Nurse girls.....	.....	.....	.....	28	28
Nurses.....	71	67	29	13	180
Office work.....	1	59	5	22	87
Pantry work.....	20	47	13	22	102
Saleswomen.....	.....	2	.....	.....	2
Scrubwomen.....	84	323	192	21	620
Seamstresses.....	30	39	16	15	100
Second work.....	134	89	16	40	279
Silver girls.....	.....	.....	.....	2	2
Solicitors.....	.....	1	8	3	12
Stenographers.....	1	11	4	7	23
Vegetable cleaners.....	.....	.....	.....	6	6
Washerwomen.....	.....	.....	.....	2	2
Waitresses.....	92	410	108	13	621
Wrappers.....	.....	.....	8	.....	8
Miscellaneous, occupation not stated.....	8	.....	23	.....	31

The net results of the year's work of the four offices is recorded in this table and shows that the total number of applicants, for whom positions were secured, to be 31,724 and at the same time supplying is number to those wanting help. Of this number 19,405 or 61.17 per cent were males, represented in 124 different occupations, and 319, or 38.83 per cent, were females, placed in 42 different occupations.



The North Side office performed of this work 24.51 per cent; the South Side office 38.23 per cent; the West Side office 18.13 per cent. and the Peoria office 19.13 per cent.

The following table of percentages of applications for employment and help and for positions secured shows the work of the four offices and is presented for comparison.

OFFICERS.	PERCENTAGE OF—		
	Applications for employment.	Applications for help.	Positions secured.
North Side.....	21.63	26.99	24.51
South Side.....	34.06	37.55	38.23
West Side .....	25.52	17.79	18.13
Peoria.....	18.19	17.67	19.13
Total.....	100.00	100.00	100.00

The combined work of all the offices for the year is presented in the following table, showing the applications filed for employment and help, also the number of positions secured in all the occupations represented, with the percentages to both classes of applications:

TABLE 6—*Number of Applications for Employment, Applications for Help, Positions Secured, also Percentages of Positions Secured Applicants for Employment and Applicants for Help.*

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
	Grand totals.....	37,493	36,710	*31,724	84.61	86.42
	Males.....	23,763	21,625	†19,405	81.66	89.73
	Females.....	13,730	15,085	†12,319	89.72	81.66
	Males.....	23,763	21,625	19,405	81.66	89.73
1	Agents.....	32	20	16	50.00	75.00
2	Any light work.....	31				
3	Apprentices.....	47	12	12	25.53	100.00
4	Architects.....	1				
5	Artists.....	4	1		25.00	100.00
9	Bakers.....	54	23	23	51.85	100.00
7	Barbers.....	8	5	5	62.50	100.00
8	Barnmen.....	302	275	269	89.07	97.2
9	Bartenders.....	39	17	15	38.46	86.24
10	Bench hands.....	23				
11	Blacksmiths.....	113	103	88	77.88	85.44
12	Blacksmith helpers.....	15	3	3	20.00	100.00
13	Boiler makers.....	7	5	5	71.43	100.00
14	Bookbinders.....	4				
15	Bookkeepers.....	66	12	12	18.18	100.00

\*Including 215 applications filed the previous year.

†Including 92 applications filed the previous year.

‡Including 123 applications filed the previous year.

Table 6—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
6	Bootblacks .....	46	49	44	95.65	89.80
7	Boxmakers .....	38	31	31	81.58	100.00
8	Boys.....	358	343	284	73.74	76.97
9	Boys, bell .....	37	38	33	89.19	86.84
0	Boys, cash .....	23	23	21	91.30	91.30
1	Boys, delivery.....	133	127	122	91.73	96.06
2	Boys, elevator.....	6	5	5	83.33	100.00
3	Boys, errand.....	76	77	71	93.42	92.21
4	Boys, factory.....	28	31	26	92.86	83.87
5	Boys, office.....	55	45	40	72.73	88.89
6	Brakemen .....	10	6	6	60.00	100.00
7	Brass finishers.....	5				
8	Bricklayers .....	5	4	2	40.00	50.00
9	Bridge builders.....	1				
0	Butchers .....	38	28	27	71.05	96.43
1	Butlers .....	11	11	7	63.64	63.64
2	Cabinet makers .....	22	7	4	18.18	57.14
3	Calclminers .....	2	2	2	100.00	100.00
4	Candy makers .....	2				
5	Canvassers.....	35	48	28	80.00	58.33
6	Carpet layers.....	4	3	3	75.00	100.00
7	Carpenters .....	193	146	120	75.65	82.19
8	Carriage and wagon washers.....	21	21	19	90.48	90.48
9	Cashiers .....	3	2	2	66.67	100.00
0	Checkers.....	5	3	3	60.00	100.00
1	Cigar makers.....	2	1	1	50.00	100.00
2	Circular distributors.....	1				
3	Cleaners, harness.....	2				
4	Clerks .....	3	1	1	33.33	100.00
5	Clerks, bill.....	2				
6	Clerks, drug .....	3	3	3	100.00	100.00
7	Clerks, dry goods.....	2	2	2	100.00	100.00
8	Clerks, general.....	55	11	11	20.00	100.00
9	Clerks, grocery .....	31	17	17	54.84	100.00
0	Clerks, hotel.....	4				
1	Clerks, office.....	20	10	10	50.00	100.00
2	Clerks, order.....	2	2	2	100.00	100.00
3	Clerks, not stated.....	286	41	40	13.99	97.58
4	Clerks, shipping.....	41	23	23	56.10	100.00
5	Coachmen .....	76	54	53	69.61	98.15
6	Coal heavers.....	1				
7	Coal miners .....	5	4	4	80.00	100.00
8	Coal weighers.....	2	2	2	100.00	100.00
9	Collectors .....	41	11	11	26.83	100.00
0	Compositors .....	2				
1	Cooks.....	435	353	330	75.86	93.48
2	Conductors .....	2	1	1	50.00	100.00
3	Core makers .....	7				
4	Dairymen .....	14	13	13	92.86	100.00
5	Deck hands.....	2	2	2	100.00	100.00
6	Dishwashers.....	415	389	384	92.53	98.72
7	Distributors .....	52	2	2	100.00	100.00
8	Door men.....	3	3	3	100.00	100.00
9	Draughtsmen.....	5				
0	Drill pressmen.....	50				
1	Drivers .....	348	280	246	70.69	87.86
2	Electricians .....	47	14	12	25.53	85.71
3	Elevators .....	158	68	67	42.41	98.53
4	Engineers .....	109	37	33	30.28	89.19
5	Factory hands.....	1,758	1,407	1,271	72.30	90.33
6	Farmers .....	99	116	84	84.85	72.14
7	Farm hands.....	923	888	760	82.34	85.59
8	Firemen .....	171	53	53	30.99	100.00
9	Florists .....	11	6	6	54.55	100.00
0	Foremen .....	3				
1	Foundrymen.....	3				
2	Furnace tenders.....	1				

Table 6—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
83	Gardeners .....	44	41	35	79.55	85.37
84	Glass workers .....	1				
85	Guards, railroad .....	2	2	2	100.00	100.00
86	Harness makers .....	6	4	4	66.67	100.00
87	Harvest hands .....	40	53	40	100.00	75.47
88	Horseshoers .....	3	2	2	66.67	100.00
89	Hostlers .....	61	45	45	73.77	100.00
90	Housemen .....	825	704	687	83.27	97.59
91	Ice cutters .....	17	17	17	100.00	100.00
92	Interpreters .....	2	2	2	100.00	100.00
93	Iron workers .....	23	7	7	30.43	100.00
94	Janitors .....	293	188	180	61.43	95.71
95	Kitchenwork .....	168	155	154	91.67	99.35
96	Laborers .....	10,111	11,059	9,721	96.17	87.93
97	Laborers, railroad .....	351	357	351	100.00	98.22
98	Lathe hands .....	15	1	1	6.67	100.00
99	Lathers .....	1				
100	Laundrymen .....	44	30	28	63.64	93.33
101	Linemen, electrical .....	2				
102	Linemen, not stated .....		3	3	75.00	100.00
103	Locksmiths .....	5				
104	Machine hands .....	131	9	6	4.58	66.67
105	Machinists .....	240	90	76	31.67	84.44
106	Masons .....	1	1	1	100.00	100.00
107	Malsters .....	1	2	1	100.00	50.00
108	Metal workers .....	11	1	1	9.09	100.00
109	Millers .....	1				
110	Millwrights .....	10	4	4	40.00	100.00
111	Miners .....	17	107	17	100.00	15.89
112	Models .....	1	1	1	100.00	100.00
113	Molders .....	18	20	12	66.67	60.00
114	Nurses .....	15	10	10	66.67	100.00
115	Office help .....	31	7	7	22.58	100.00
116	Oilers .....	7				
117	Packers .....	110	49	49	44.55	100.00
118	Painters .....	169	136	123	72.78	90.44
119	Paper hangers .....	7	3	3	42.86	100.00
120	Pantrymen .....	3	1	1	33.33	100.00
121	Pan washers .....	3	3	3	100.00	100.00
122	Pattern makers .....	8	2	2	25.00	100.00
123	Pharmacists .....	1				
124	Photographers .....	2				
125	Pin setters .....	27	27	27	100.00	100.00
126	Pipe fitters .....	1				
127	Plasterers .....	6	3	3	50.00	100.00
128	Plumbers .....	14	12	11	78.57	91.67
129	Polishers, metal .....	4	3	3	75.00	100.00
130	Polishers, not stated .....	3				
131	Porters .....	877	710	699	79.70	98.45
132	Pressers .....	3	1	1	33.33	100.00
133	Pressmen .....	8	4	4	50.00	100.00
134	Printers .....	16				
135	Punch press hands .....	34				
136	Railroadmen .....	5				
137	Roofers .....	2	2	2	100.00	100.00
138	Sailors .....	1				
139	Salesmen .....	89	37	27	30.34	72.97
140	Sawyers .....	5				
141	Shoemakers .....	9	3	3	33.33	100.00
142	Shovelers .....	34	34	34	100.00	100.00
143	Silvermen .....	1				
144	Solicitors .....	33	59	29	87.88	49.15
145	Steam fitters .....	13	6	1	7.69	16.67
146	Stenographers .....	32	15	15	46.88	100.00
147	Stockmen .....	186	221	186	93.47	84.16
148	Stockkeepers .....	67	52	50	74.63	96.15
149	Stone cutters .....					
150	Stovemn .....				66.67	100.00
151	Tailors .....				25.00	100.00

Table 6—Continued.

OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
	Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
Teachers, not stated	1				
Teamsters	585	513	499	80.17	91.42
Telegraphers	1				
Timekeepers	2				
Tinsmiths	27	13	13	48.15	72.22
Tool makers	6				
Truckmen	13				
Upholsterers	8	7	6	75.00	83.71
Vise hands	4				
Waiters	367	304	297	80.93	98.67
Watch makers	1				
Watchmen	150	58	58	38.67	100.00
Whole-sale men	22	1	1	4.55	100.00
Window washers	433	478	425	98.15	88.94
Wood finishers	7				
Wood workers	16	2	2	12.50	100.00
Yardmen	167	160	138	94.61	98.75
Miscellaneous, not classified	602	433	408	67.77	94.23
<b>FEMALES</b>	<b>13,730</b>	<b>15,065</b>	<b>12,319</b>	<b>89.72</b>	<b>81.06</b>
Addressers	14	5	4	28.57	80.00
Agents	1	5			
Apprentices	1				
Attendants	4	5	4	100.00	80.00
Bookkeepers	39	6	5	12.82	83.33
Bottle labelers	8	3	3	37.50	100.00
Canvassers	18	27	15	83.33	33.58
Cashiers	34	5	5	14.71	100.00
Clerks	48	26	20	41.67	78.92
Collectors	1				
Chambermaids	964	954	876	90.87	91.82
Companions	13	6	6	46.15	100.00
Cooks	1,123	1,237	1,000	89.05	80.84
Copyists	1				
Dayworkers	859	665	647	75.32	97.39
Demonstrators	5	6	1	20.00	16.67
Dining room help	318	332	304	95.60	91.57
Dishwashers	985	951	888	94.97	93.34
Distributors	2	2	2	100.00	100.00
Domestics	499	852	478	95.79	58.10
Factory work	744	1,067	632	84.95	58.14
Folders, circulars	12	10	7	58.33	70.00
General housework	2,503	2,985	2,434	97.24	81.54
Governesses	2				
Hotel help	9		4	44.44	100.00
Housekeepers	377	341	263	69.76	77.13
Housework	1,524	1,924	1,486	97.51	77.23
Janitresses	20	10	10	50.00	100.00
Kitchen help	755	758	702	92.98	92.86
Lady's maid	3	1	1	33.33	100.00
Laundresses	326	329	295	90.49	89.65
Mail order help	2				
Matrons	1				
Milliners	1	1	1	100.00	100.00
Nurses	251	220	180	71.71	81.82
Nurse girls	31	28	28	90.32	100.00
Office work	217	88	87	40.09	98.86
Pantry work	121	113	102	84.30	90.27
Proof readers	2				
Reception	2				
Saleswomen	2	6	2	100.00	33.33
Scrubwomen	656	683	620	94.51	90.78
Seamstresses	115	168	100	86.96	88.32
Second work	315	338	279	88.57	82.54
Silver girls	2	2	2	100.00	100.00
Solicitors	14	43	12	85.71	27.01
Stenographers	107	26	23	21.50	89.47

Table 6—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
48	Teachers, not stated.....	1				
49	Typewriters.....	1				
50	Vegetable cleaners.....	6	7	6	100.00	85.71
51	Waitresses.....	673	775	621	92.27	82.69
52	Washer women.....	3	2	2	66.67	100.00
53	Wrappers.....	9	8	8	88.89	100.00
54	Miscellaneous, occupation not stated.....	36	43	31	86.11	72.09

Directing attention to the percentages shown at the head of this table, a very gratifying result is presented of the work accomplished by the offices during the year. It will be seen that 84.61 per cent of those applying for work were secured positions or, in other words, out of every ten applications for situations eight persons were placed in positions, this supplied 86.42 per cent of the persons registering and wanting help. It is also shown here that 81.66 per cent of the males applying for positions were placed, filling 89.73 per cent of the calls for help. These last percentages are exactly reversed as to females.

From the preceding table a selection is made of 28 leading occupations for males and 20 for females. These are arranged in the same form and order as table 6, being supplemental to that table:

TABLE 7—Summary of the Leading Occupations, Showing Applications for Employment and Help, With Percentages.

## MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
	Grand totals.....	33,281	32,957	28,542	85.76	86.60
	Males.....	21,353	20,023	17,978	84.19	89.79
	Females.....	11,928	12,934	10,564	88.56	81.66
	Males.....	21,353	20,023	17,978	84.20	89.80
1	Barnmen.....	302	275	269	89.07	97.82
2	Bell boys and other occupations.....	716	689	582	81.28	84.47
3	Blacksmiths.....	113	108	88	77.88	85.44
4	Carpenters.....	193	146	120	75.55	82.19
5	Clerks, all kinds.....	449	110	100	24.28	90.90

Table 7—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
6	Cooks.....	435	353	330	75.86	98.48
7	Dishwashers and kitchen work.....	583	544	538	92.28	98.90
8	Drivers.....	348	280	246	70.69	87.86
9	Elevatormen.....	158	68	67	42.41	98.53
10	Engineers.....	109	37	33	30.28	89.19
11	Factory hands.....	1,758	1,407	1,271	72.30	90.33
12	Farm hands.....	923	888	760	82.34	85.59
13	Firemen.....	171	53	53	30.99	100.00
14	Houseman.....	825	704	687	83.27	97.59
15	Janitors.....	293	188	180	61.43	95.74
16	Laborers.....	10,111	11,059	9,721	96.17	87.93
17	Laborers, railroad.....	351	357	351	100.00	98.32
18	Machinists and helpers.....	371	99	82	22.10	82.83
19	Packers.....	110	49	49	44.55	100.00
20	Painters.....	169	136	123	72.78	90.44
21	Porters.....	877	710	699	79.70	98.45
22	Salesmen.....	89	37	27	30.34	72.97
23	Stockmen.....	199	221	186	93.47	84.16
24	Teamsters.....	585	513	469	80.17	91.42
25	Waiters.....	367	301	297	80.93	98.67
26	Watchmen.....	150	58	58	38.67	100.00
27	Window washers.....	433	478	425	98.15	88.91
28	Yardmen.....	167	160	158	94.61	98.75
	FEMALES.....	11,923	12,934	10,564	88.56	81.68
1	Chambermaids.....	964	954	876	90.87	91.82
2	Cooks.....	1,123	1,237	1,000	89.05	80.84
3	Daywork.....	859	665	647	75.32	97.29
4	Diningroom help.....	318	332	304	94.60	91.57
5	Dishwashers.....	935	951	888	94.97	93.34
6	Domestics.....	499	852	478	95.79	56.10
7	Factory work.....	744	1,087	632	84.95	58.14
8	General housework.....	2,503	2,985	2,434	97.24	81.54
9	Housekeepers.....	377	341	263	69.76	77.13
10	Kitchen help.....	755	756	702	92.98	92.86
11	Laundresses.....	326	329	285	90.49	89.65

Table 7—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
12	Nurses.....	251	220	180	71.71	81.82
13	Nurse girls.....	31	28	28	90.32	100.00
14	Office work, bookkeeping.....	256	94	92	35.94	97.87
15	Pantry work.....	121	113	102	84.30	90.27
16	Scrub women.....	656	683	620	94.51	90.78
17	Seamstresses.....	115	168	100	86.96	59.52
18	Second work.....	315	338	279	88.57	82.54
19	Stenographers.....	107	26	23	21.50	88.47
20	Waitresses.....	673	775	621	92.27	82.69

The 48 occupations here presented account for 33,281 or 88.77 per cent of all applications filed for employment, and 32,957 or 89.78 per cent of all applications for help. These percentages are less than shown for last year. The last two columns of the table show the percentages of those securing work, also those securing help in each occupation, for all occupations, and for both males and females. In several of the occupations where a small per cent of the applicants for work secured positions, a very large per cent of the applications for help were filled.

In this connection the results are shown of the work of Free Employment offices in nine other states and for this State for the year 1894:

STATES.	APPLICATIONS FOR—		POSITIONS SECURED TO APPLICANTS FOR EMPLOYMENT.	
	Employment.	Help.	Number.	Percentage.
Connecticut.....	12,723	9,285	7,866	61.83
Illinois.....	37,493	36,710	31,724	84.61
Kansas.....	4,512	522	3,903	86.50
Maryland.....	1,316	362	529	40.30
Missouri.....	15,942	36,443	9,047	56.75
Montana.....	11,104	7,805	7,125	64.16
New York.....	6,650	4,540	4,642	69.80
Ohio.....	19,333	23,074	15,975	82.63
West Virginia.....	2,330	2,008	1,785	76.31
Wisconsin.....	7,362	7,981	7,325	91.53
Totals.....	118,774	128,728	89,921	73.77

The figures shown in this table were secured direct through the Bureau of Labor of the several states and show the number of applications for employment and for help, the number of positions secured and the percentages of positions secured to applicants for employment.

It will be seen that the business transacted by the offices of Illinois exceeded by far that of any of the other states. The most notable is the number of positions secured to applicants for situations. The lowest percentage was 40.20, in Maryland, while Wisconsin was 99.5, the highest. The average for all the states was 75.71. Illinois placed in positions 35.28 per cent of the total of all the states. The next table presented is a classification of the occupations, nine for males and seven for females. The number and percentages of applications for employment and help are given, also the number and percentages of positions secured.

TABLE 8—*Classified Occupations of Applicants for Employment, Positions Secured and Applications for Help, in the Four Offices, with Percentages in Each Class.*

MALES.

CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
Males .....	23,763	.....	*19,405	.....	21,625	.....
AGRICULTURAL .....	1,330	100.00	1,124	100.00	1,338	100.00
D. rymen .....	14	1.05	13	1.16	13	.97
Farmers .....	99	7.44	84	7.47	116	8.69
Farm hands .....	923	69.40	760	67.62	888	66.36
Florists .....	11	.83	6	.53	6	.45
Gardeners .....	44	3.31	35	3.11	41	3.06
Harvest hands .....	40	3.0	41	3.56	53	3.96
Stockmen .....	169	14.96	186	16.55	221	16.51
CLERICAL .....	618	100.00	188	100.00	191	100.00
Bookkeepers .....	66	10.68	12	6.38	12	6.28
Clerks, bill .....	2	.32	.....	.....	.....	.....
Clerks, drug .....	3	.49	3	1.60	3	1.57
Clerks, dry goods .....	2	.32	2	1.06	2	1.05
Clerks, general .....	346	55.99	51	28.72	55	28.80
Clerks, grocery .....	31	5.02	17	9.04	17	8.90
Clerks, hotel .....	4	.65	.....	.....	.....	.....
Clerks, office .....	20	3.24	10	5.33	10	5.24
Clerks, shipping .....	41	6.63	23	12.23	23	12.04
Coal weighers .....	2	.32	2	1.06	2	1.05
Stenographers .....	32	5.18	5	2.68	15	7.85
Stockkeepers .....	67	10.84	50	26.60	52	27.22
Timekeepers .....	2	.32	.....	.....	.....	.....

Including 92 positions secured from applications filed the previous year.



Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	COMMERCIAL .....	482	100.00	305	100.00	381	100.00
1	Agents .....	32	6.64	16	5.24	20	5.25
2	Boys, cash .....	23	4.78	21	6.89	23	6.04
3	Boys, delivery .....	133	27.59	122	40.00	127	33.33
4	Boys, office .....	55	11.41	40	13.14	45	11.81
5	Canvassers .....	35	7.26	28	9.18	48	12.60
6	Cashiers .....	3	.62	2	.65	2	.52
7	Checkers .....	5	1.04	3	.98	3	.79
8	Collectors .....	41	8.51	11	3.61	11	2.89
9	Distributors .....	3	.62	2	.65	2	.52
10	Doormen .....	3	.62	3	.98	3	.79
11	Draughtsmen .....	5	1.04	.....	.....	.....	.....
12	Salesmen .....	89	18.46	27	8.85	37	9.71
13	Solicitors .....	33	6.85	29	9.50	59	15.49
14	Wholesalemen .....	22	4.56	1	.33	1	.26
	DOMESTIC SERVICE .....	3,108	100.00	2,565	100.00	2,630	100.00
1	Butlers .....	11	.35	7	.27	11	.42
2	Carpet layers .....	4	.13	3	.12	3	.11
3	Cooks .....	435	14.00	330	12.87	353	13.42
4	Dishwashers .....	415	13.35	324	14.97	389	14.79
5	Housemen .....	825	26.54	687	26.78	704	26.78
6	Kitchenwork .....	168	5.41	154	6.00	155	5.89
7	Pantrymen .....	3	.10	1	.04	1	.04
8	Panwashers .....	3	.10	3	.12	3	.11
9	Porters .....	877	28.22	699	27.25	710	27.00
10	Waiters .....	367	11.80	297	11.58	301	11.44
	MANUAL LABOR .....	10,497	100.00	10,106	100.00	11,450	100.00
1	Coal heavers .....	1	.01	.....	.....	.....	.....
2	Laborers .....	10,111	96.32	9,721	96.19	11,059	96.58
3	Laborers, railroad .....	351	3.34	351	3.47	357	3.12
4	Shovelers .....	34	.33	34	.34	34	.30
	PROFESSIONAL .....	22	100.00	11	100.00	11	100.00
1	Architects .....	1	4.55	.....	.....	.....	.....
2	Artists .....	4	18.18	1	9.09	1	9.09
3	Nurses .....	15	68.17	10	90.91	10	90.91
4	Pharmacists .....	1	4.55	.....	.....	.....	.....
5	Teachers .....	1	4.55	.....	.....	.....	.....
	TRADES .....	1,959	100.00	819	100.00	1,016	100.00
1	Bakers .....	54	2.76	28	3.42	28	2.76
2	Barbers .....	8	.41	5	.61	5	.49
3	Bartenders .....	39	1.99	15	1.83	17	1.67
4	Bench hands .....	23	1.17	.....	.....	.....	.....
5	Blacksmiths .....	113	5.77	88	10.75	103	10.13
6	Boilermakers .....	7	.36	5	.61	5	.49
7	Bookbinders .....	4	.20	.....	.....	.....	.....
8	Boxmakers .....	38	1.94	31	3.79	31	3.05
9	Brass finishers .....	5	.26	.....	.....	.....	.....
10	Bricklayers .....	5	.26	2	.24	4	.39
11	Bridge builders .....	1	.05	.....	.....	.....	.....
12	Butchers .....	38	1.94	27	3.30	28	2.76
13	Cabinet makers .....	22	1.12	4	.49	7	.69
14	Calciminers .....	2	.10	2	.24	2	.20
15	Candy makers .....	2	.10	.....	.....	.....	.....
16	Carpenters .....	193	9.85	120	14.66	146	14.36
17	Cigar makers .....	2	.10	1	.12	1	.10
18	Coal miners .....	22	1.12	21	2.56	111	10.82

Table 8—Continued.

CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
	Number.	Percent- ages of each class.	Number.	Percent- ages of each class.	Number.	Percent- ages of each class.
Compositors .....	2	.10				
Coremakers .....	7	.36				
Deck hands .....	2	.10	2	.24	2	.20
Drill pressmen .....	50	2.55				
Electricians .....	47	2.40	12	1.47	14	1.38
Engineers .....	109	5.56	33	4.03	37	3.64
Firemen .....	171	8.73	53	6.47	53	5.22
Glassworkers .....	1	.05				
Harness makers .....	6	.31	4	.49	4	.39
Horseshoers .....	3	.15	2	.24	2	.20
Ironworkers .....	23	1.17	7	.85	7	.69
Lathe hands .....	15	.77	1	.12	1	.10
Lathers .....	1	.05				
Laundrymen .....	44	2.25	28	3.42	30	2.95
Locksmiths .....	5	.26				
Machine hands .....	131	6.69	6	.73	9	.89
Machinists .....	240	12.25	76	9.19	90	8.86
Masons .....	1	.05	1	.12	1	.10
Metal workers .....	11	.56	1	.12	1	.10
Millers .....	1	.05				
Millwrights .....	10	.51	4	.49	4	.39
Molders .....	18	.92	12	1.47	20	1.97
Packers .....	110	5.62	49	5.98	49	4.82
Painters .....	169	8.63	123	15.02	136	13.38
Paper hangers .....	7	.36	3	.37	3	.30
Pattern makers .....	8	.41	2	.24	2	.20
Photographers .....	2	.10				
Pipefitters .....	1	.05				
Plasterers .....	6	.31	3	.37	3	.30
Plumbers .....	14	.71	11	1.34	12	1.18
Polishers, metal .....	4	.20	3	.37	3	.30
Polishers, not stated .....	3	.15				
Pressers .....	3	.15	1	.12	1	.10
Pressmen .....	8	.41	4	.49	4	.39
Printers .....	16	.83				
Punch press hands .....	34	1.74				
Roofers .....	2	.10	2	.24	2	.20
Sawyers .....	5	.26				
Shoemakers .....	9	.46	3	.37	3	.30
Steam fitters .....	13	.66	1	.12	6	.59
Stone cutters .....	2	.10				
Tailors .....	8	.41	2	.24	2	.20
Telegraphers .....	1	.05				
Tin smiths .....	27	1.38	13	1.59	18	1.76
Toolmakers .....	6	.31				
Upholsterers .....	8	.41	6	.73	7	.69
Watchmakers .....	1	.05				
Wood workers .....	16	.82	2	.24	2	.20
<b>TRANSPORTATION .....</b>	<b>1,561</b>	<b>100.00</b>	<b>1,156</b>	<b>100.00</b>	<b>1,242</b>	<b>100.00</b>
Barnmen .....	302	19.35	269	23.27	275	22.14
Brakemen .....	10	.64	6	.52	6	.48
Coachmen .....	76	4.87	53	4.58	54	4.35
Conductors .....	2	.13	1	.09	1	.08
Drivers .....	348	22.29	246	21.23	280	22.55
Elevator men .....	158	10.12	67	5.80	68	5.48
Hostlers .....	61	3.91	45	3.89	45	3.62
Railroad men .....	5	.32				
Sailors .....	1	.06				
Teamsters .....	585	37.48	469	40.57	513	41.30
Truckman .....	13	.83				

Table 8—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	MISCELLANEOUS .....	4,186	100.00	3,039	100.00	3,336	100.00
1	Apprentices .....	47	1.12	12	.39	12	.36
2	Blacksmith helpers .....	15	.36	3	.10	3	.09
3	Bootblacks .....	46	1.10	44	1.45	49	1.46
4	Boys .....	358	8.56	284	8.69	343	10.19
5	Boys, bell .....	37	.88	33	1.09	38	1.13
6	Boys, elevator .....	6	.14	5	.16	5	.15
7	Boys, errand .....	76	1.82	71	2.34	77	2.29
8	Boys, factory .....	28	.67	26	.86	31	.92
9	Carriage & wagon washers .....	21	.50	19	.63	21	.62
10	Cleaners, harness .....	2	.05				
11	Factory hands .....	1,758	42.01	1,271	41.81	1,407	41.80
12	Foremen .....	3	.07				
13	Foundry men .....	3	.07				
14	Furnace tenders .....	1	.02				
15	Guards, railroad .....	2	.05	2	.07	2	.06
16	Ice cutters .....	17	.41	17	.56	17	.51
17	Interpreters .....	2	.05	2	.07	2	.06
18	Janitors .....	293	7.00	180	5.92	188	5.59
19	Linemen .....	6	.14	3	.10	3	.09
20	Malsters .....	1	.02	1	.03	2	.06
21	Modes .....	1	.02	1	.03	1	.03
22	Office help .....	31	.74	7	.23	7	.21
23	Oilers .....	7	.17				
24	Pin setters .....	27	.64	27	.89	27	.80
25	Silver men .....	1	.02				
26	Stove men .....	3	.07				
27	Vise hands .....	4	.10	2	.07	2	.06
28	Watchmen .....	150	3.58	58	1.91	58	1.72
29	Window washers .....	433	10.34	425	13.97	478	14.20
30	Wood finishers .....	7	.17				
31	Yardmen .....	167	3.99	158	5.20	160	4.74
32	Not classified .....	633	15.12	408	13.43	433	12.86

## FEMALES.

	FEMALES .....	13,730	.....	† 12,319	.....	15,085	.....
	CLERICAL .....	363	100.00	115	100.00	120	100.00
1	Bookkeepers .....	39	10.74	5	4.35	6	5.00
2	Office work .....	217	59.78	87	73.65	83	73.33
3	Stenographers .....	107	29.48	23	20.00	26	21.67
	COMMERCIAL .....	157	100.00	72	100.00	131	100.00
1	Addres-sers .....	14	8.92	4	5.56	5	3.81
2	Bottle labelers .....	8	5.10	3	4.17	3	2.30
3	Canvassers .....	18	11.47	15	20.83	27	20.61
4	Cashiers .....	34	21.66	5	6.94	5	3.82
5	Clerks .....	48	30.58	20	27.78	26	19.85
6	Collectors .....	1	.64				
7	Demonstrators .....	5	3.13	1	1.39	6	4.58
8	Distributors .....	2	1.28	2	2.78	2	1.52
9	Mailorder help .....	2	1.28				
10	Saleswomen .....	2	1.28	2	2.78	6	4.58
11	Solicitors .....	14	8.92	12	16.66	43	32.82
12	Wrappers .....	9	5.74	8	11.11	8	6.11

† Including 123 positions secured from applications filed the previous year.

Table 8—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	DOMESTIC SERVICE.....	12,001	100.00	11,037	100.00	13,278	100.00
1	Chambermaids.....	964	8.03	875	7.94	954	7.18
2	Cooks.....	1,123	9.36	1,000	9.06	1,237	9.31
3	Dayworkers.....	859	7.16	647	5.87	665	5.01
4	Dining room help.....	318	2.65	304	2.76	332	2.50
5	Dishwashers.....	985	7.79	888	8.05	951	7.16
6	Domestics.....	499	4.16	473	4.34	852	6.42
7	General house work.....	2,503	20.86	2,434	22.06	2,985	22.48
8	Hotel help.....	9	.07	4	.04	4	.03
9	House keepers.....	377	3.14	263	2.39	341	2.57
10	House work.....	1,524	12.70	1,486	13.47	1,924	14.49
11	Kitchen help.....	755	6.29	702	6.36	756	5.69
12	Laundresses.....	326	2.72	295	2.68	329	2.48
13	Nurse girls.....	31	.26	28	.26	28	.21
14	Pantry work.....	121	1.01	102	.93	113	.85
15	Reception service.....	2	.02				
16	Scrub women.....	656	5.47	620	5.63	683	5.14
17	Second work.....	315	2.62	279	2.44	338	2.56
18	Silver girls.....	2	.02	2	.02	2	.02
19	Vegetable cleaners.....	6	.05	6	.05	7	.05
20	Waitresses.....	673	5.60	621	5.63	775	5.83
21	Washer women.....	3	.02	2	.02	2	.02
	PERSONAL SERVICE.....	21	100.00	12	100.00	13	100.00
1	Attendants.....	4	19.05	4	33.34	5	38.46
2	Companions.....	13	61.90	6	50.00	6	46.16
3	Lady's maids.....	3	14.29	1	8.33	1	7.69
4	Matron.....	1	4.76	1	8.33	1	7.69
	PROFESSIONAL.....	254	100.00	180	100.00	220	100.00
1	Governesses.....	2	.79				
2	Nurses.....	251	98.82	180	100.00	220	100.00
3	Teachers.....	1	.39				
	TRADES.....	116	100.00	100	100.00	168	100.00
1	Milliners.....	1	.86				
2	Seamstresses.....	115	99.14	100	100.00	168	100.00
	MISCELLANEOUS.....	818	100.00	680	100.00	1,155	100.00
1	Agents.....	1	.12			5	.43
2	Apprentices.....	1	.12				
3	Copyists.....	1	.12				
4	Factory work.....	744	90.95	632	92.94	1,087	94.11
5	Folders, circulars.....	12	1.47	7	1.03	10	.87
6	Janitresses.....	20	2.45	10	1.47	10	.87
7	Proof readers.....	2	.25				
8	Typewriters.....	1	.12				
9	Not stated.....	36	4.40	31	4.56	43	3.72

A recapitulation of Table 8 is presented as follows:

TABLE 9—*Classified Occupations (Male and Female), with Percentages.*

Number.	SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
			Number	Percentage	Number	Percentage.	Number	Percentage.
	MALES .....		23,763	100.00	*19,405	100.00	21,625	100.00
1	Agricultural.....	7	1,330	5.60	1,124	5.82	1,338	6.19
2	Clerical.....	13	618	2.60	188	.97	191	.88
3	Commercial.....	14	482	2.03	305	1.58	381	1.76
4	Domestic service..	10	3,108	13.08	2,065	13.28	2,630	12.16
5	Manual labor.....	4	10,497	44.17	10,106	52.33	11,450	52.95
6	Professional.....	5	22	.09	11	.06	11	.05
7	Trades.....	66	1,939	8.24	819	4.24	1,016	4.70
8	Transportation....	11	1,561	6.57	1,156	5.98	1,242	5.74
9	Miscellaneous.....	31	4,186	17.62	3,039	15.74	3,336	15.57
	FEMALES.....		13,720	100.00	†12,319	100.00	15,085	100.00
1	Clerical.....	3	363	2.64	115	.94	120	.80
2	Commercial.....	12	157	1.13	72	.59	131	.87
3	Domestic service..	21	12,001	87.41	11,037	90.50	13,278	88.02
4	Personal service...	4	21	.15	12	.10	13	.09
5	Professional.....	3	254	1.85	180	1.48	220	1.46
6	Trades.....	2	116	.85	100	.82	168	1.11
7	Miscellaneous.....	9	818	5.96	680	5.57	1,155	7.65

This shows that of the 23,763 male applicants for employment 10,497, or 44.17 per cent, registered for some kind of manual labor. This percentage is slightly less than shown for last year. It is also shown that 52.33 per cent of the positions secured were for this kind of employment, and accounts for 52.95 per cent of the employers seeking help.

The next highest number was applicants for employment in domestic service, and represents 13.08 per cent and 13.28 per cent of the positions secured. In the female classification domestic service represents 87.41 per cent of the total number of applicants for employment, and 90.50 per cent of the positions secured, filling 88.02 per cent of applications for help. This class of employment is represented by 21 different occupations. The most important fact of this representation is shown in the column giving the number of positions

\* Including 92 positions secured from applications filed the previous year.

† Including 123 positions secured from applications filed the previous year.

secured to applicants for situations. Referring to that part of the table giving the record for males it will be seen that of the 10,497 applying for work as laborers 10,106, or 96.28 per cent, were furnished places to work; in agricultural labor 84.51 and in domestic service 82.53.

For females, in domestic service, applying for positions, 91.97 per cent were secured places, supplying 83.12 per cent of the persons applying for this class of help.

## AGE PERIODS OF APPLICANTS.

The age period of applicants for employment by classified occupations is shown in the following table:

TABLE 10—*Age Periods of Applicants, by Classified Occupations.*

## MALES.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-ported.
	Males—23,763.....	2,550	9,871	7,750	2,682	598	115	197
	North Side Office.....	258	1,702	1,137	584	137	24	80
	South Side Office.....	825	3,106	2,979	734	218	62	107
	West Side Office.....	1,047	3,114	1,981	677	125	22	10
	Peoria Office.....	420	1,949	1,413	687	118	7	.....
	AGRICULTURAL.....	147	590	417	142	21	.....	13
1	Dairymen.....	1	6	4	3	.....	.....	.....
2	Farmers.....	7	53	27	12	.....	.....	.....
3	Farm hands.....	92	409	302	99	13	.....	8
4	Florists.....	.....	5	2	3	1	.....	.....
5	Gardeners.....	14	18	8	8	4	.....	.....
6	Harvest hands.....	7	24	6	3	.....	.....	.....
7	Stockmen.....	40	79	58	14	3	.....	5
	CLERICAL.....	114	316	123	43	17	2	3
1	Bookkeepers.....	7	28	20	6	2	1	2
2	Clerks, bill.....	1	1	.....	.....	.....	.....	.....
3	Clerks, drug.....	.....	1	1	1	.....	.....	.....
4	Clerks, dry goods.....	.....	1	.....	.....	.....	.....	.....
5	Clerks, general.....	78	194	49	16	8	1	.....
6	Clerks, grocery.....	3	4	8	11	5	.....	.....
7	Clerks, hotel.....	1	2	1	.....	.....	.....	.....
8	Clerks, office.....	2	7	6	3	1	.....	1
9	Clerks, shipping.....	4	19	13	5	.....	.....	.....
10	Coal weighers.....	.....	2	.....	.....	.....	.....	.....
11	Stenographers.....	14	14	3	1	.....	.....	.....
12	Stock keepers.....	4	42	21	.....	.....	.....	.....
13	Time keepers.....	.....	1	.....	.....	.....	.....	.....
	COMMERCIAL.....	243	144	66	23	5	.....	1
1	Agents.....	10	14	6	1	.....	.....	1
2	Boys, cash.....	23	.....	.....	.....	.....	.....	.....
3	Boys, delivery.....	13	.....	.....	.....	.....	.....	.....
4	Boys, office.....	51	4	.....	.....	.....	.....	.....
5	Canvassers.....	6	15	10	4	.....	.....	.....
6	Cashiers.....	1	2	.....	.....	.....	.....	.....
7	Checkers.....	1	3	1	.....	.....	.....	.....
8	Collectors.....	4	29	8	.....	.....	.....	.....
9	Distributors.....	2	.....	1	.....	.....	.....	.....
10	Doormen.....	.....	2	.....	.....	.....	.....	.....
11	Draughtsmen.....	.....	4	1	.....	.....	.....	.....
12	Salesmen.....	2	48	24	12	3	.....	.....
13	Solicitors.....	4	15	10	4	.....	.....	.....
14	Wholesale men.....	6	8	4	2	2	.....	.....

Table 10—Continued.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	DOMESTIC SERVICE.....	244	1,082	988	513	181	45	55
1	Butlers.....	1	6	2				2
2	Carpet layers.....		3	1				
2	Cooks.....	8	188	177	25	30	3	4
4	Dishwashers.....	39	164	136	50	15	5	6
5	Housemen.....	25	238	283	176	64	20	19
6	Kitchen work.....	13	48	60	29	9	3	6
7	Pantrymen.....		1		1	1		
8	Pan washers.....	1	2					
9	Porters.....	68	283	238	208	54	14	12
10	Waiters.....	89	149	91	24	8		6
	MANUAL LABOR.....	387	4,505	4,015	1,263	231	50	46
1	Coal heavers.....					1		
2	Laborers.....	369	4,335	3,878	1,213	221	49	46
3	Laborers, railroad.....	18	159	123	42	8	1	
4	Shovelers.....		11	14	8	1		
	PROFESSIONAL.....		10	7	4	1		
1	Architects.....			1				
2	Artists.....		2	1	1			
3	Nurses.....		7	4	3	1		
4	Pharmacists.....			1				
5	Teachers.....		1					
	TRADES.....	214	895	580	210	47	6	7
1	Bakers.....	3	25	12	10	4		
2	Barbers.....	1	3	2	2			
3	Bartenders.....	3	28	7	1			
4	Bench hands.....	1	18	1	3			
5	Blacksmiths.....	1	34	58	20			
6	Boiler makers.....		5	2				
7	Book binders.....		1	2				
8	Box makers.....	4	14	9	1	1		2
9	Brass finishers.....	1	2		2			
10	Brick layers.....		4	1				
11	Bridge builders.....		1					
12	Butchers.....		11	17	6	2		2
13	Cabinet makers.....		10	8	1	3		
14	Calclminers.....		1	1				
15	Candy makers.....		1	1				
16	Carpenters.....		42	89	44	15	2	1
17	Cigar makers.....		2					
18	Coal miners.....	5	9	6	2			
19	Compositors.....			1	1			
20	Core makers.....	1	6					
21	Deck hands.....	2						
22	Drill pressmen.....	35	11	2	2			
23	Electricians.....	5	30	10	2			
24	Engineers.....	1	32	49	19	7	1	
25	Firemen.....	13	100	43	11	3		1
26	Glass workers.....		1					
27	Harness makers.....		3	3				
28	Horse shoers.....		1	2				
29	Iron workers.....	2	8	9	3			1
30	Lathe hands.....		13	2				
31	Lathers.....		1					
32	Laundrymen.....	10	17	15	2			
33	Locksmiths.....	2	2	3				
34	Machine hands.....	54	66	9	2			
35	Machinists.....	18	134	62	23	3		
36	Masons.....			1				
37	Metal workers.....	2	5	3	1			
38	Millers.....					1		
39	Millwrights.....		1				1	
40	Molders.....							
41	Packers.....		20					
42	Painters.....		4					

Table 10—Continued.

CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
Paper hangers.....		3	3		1		
Pattern makers.....		2	3	2		1	
Photographers.....	1		1				
Pipe fitters.....		1	1				
Plasterers.....	1	1	1	3			
Plumbers.....	2	6	5	1			
Polishers, metal.....		3	1				
Polishers, not stated.....		1	2				
Pressers.....	1	2					
Pressmen.....		6	2				
Printers.....	4	9	3				
Punch press hands.....	16	17	1				
Roofers.....		1	1				
Sawyers.....	2	1	2				
Shoemakers.....		5	2	2			
Steam fitters.....		7	5	1			
Stone cutters.....		2					
Tailors.....	1	3	1	2	1		
Telegraphers.....		1					
Tinsmiths.....	1	9	12	3	2		
Tool makers.....	1	1	3	1			
Upholsterers.....		3	2	1	1	1	
Watchmakers.....				1			
Wood workers.....		5	4	4	3		
<b>TRANSPORTATION.....</b>	<b>149</b>	<b>712</b>	<b>500</b>	<b>136</b>	<b>23</b>		<b>41</b>
Barnmen.....	32	149	93	15	7		6
Brakemen.....	1	7	2				
Coachmen.....	1	39	11		1		24
Conductors.....			2				
Drivers.....	53	137	103	42	7		6
Elevator men.....	37	78	35	6			2
Hostlers.....	4	29	21	6	1		
Railroad men.....	1	4					
Sailors.....		1					
Teamsters.....	19	262	229	65	7		3
Truckmen.....	1	6	4	2			
<b>MISCELLANEOUS.....</b>	<b>1,052</b>	<b>1,617</b>	<b>1,054</b>	<b>348</b>	<b>72</b>	<b>12</b>	<b>31</b>
Apprentices.....	36	11					
Blacksmith helpers.....		9		1		1	
Boot blacks.....	21	17	4	1			3
Boys.....	347	11					
Boys, bell.....	37						
Boys, elevator.....	6						
Boys, errand.....	76						
Boys, factory.....	23						
Carriage and wagon washers.....		5	11	4	1		
Cleaners, harness.....	1	1					
Factory hands.....	363	338	443	97	8		9
Foremen.....		1		2			
Foundry men.....			3				
Furnace tenders.....				1			
Guards, railroad.....			2				
Ice cutters.....		8	9				
Interpreters.....			2				
Janitors.....	16	132	96	40	8	1	
Linemen.....	1	4	1				
Malsters.....				1			
Models.....		1					
Office help.....	8	18	4	1			
Oilers.....	1	5	1				
Pin setters.....	18	9					
Silver men.....		1					
Stove men.....		3					
Vise hands.....		1	2		1		
Watchmen.....		24	27	61	30	8	
Window washers.....	4	157	195	65	3		9
Wood finishers.....	4	2	1				
Yardmen.....	6	63	69	17	4		
<i>Not classified.....</i>	<i>79</i>	<i>296</i>	<i>180</i>	<i>57</i>	<i>17</i>	<i>2</i>	<i>2</i>



Table 10—Continued.

## FEMALES.

No.	CLASSIFICATION OF OCCUPATION.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	Females—13,730.....	2,451	5,002	3,187	1,630	540	127	738
	North Side Office.....	581	1,259	694	618	269	30	496
	South Side Office.....	752	1,947	1,373	524	163	62	143
	West Side Office.....	516	918	624	322	44	15	154
	Peoria Office.....	602	878	496	166	64	20	
	CLERICAL.....	206	125	22	5			5
1	Book keepers.....	11	21	6	1			
2	Office work.....	126	73	11	3			4
3	Stenographers.....	69	31	5	1			1
	COMMERCIAL.....	57	73	19	7	1		
1	Addressers.....	10	3	1				
2	Bottle labelers.....	5	3					
3	Canvassers.....	1	7	6	4			
4	Cashiers.....	10	22	2				
5	Clerks.....	20	22	5	1			
6	Collectors.....		1					
7	Demonstrators.....	1	3	1				
8	Distributors.....	1	1					
9	Mail order help.....	1	1					
10	Saleswomen.....		2					
11	Solicitors.....	1	7	3	2	1		
12	Wrappers.....	7	1	1				
	DOMESTIC SERVICE.....	1,614	4,410	3,011	1,568	516	127	755
1	Chambermaids.....	104	455	200	136	24	3	42
2	Cooks.....	24	242	402	268	62	20	105
3	Day workers.....	11	208	292	138	89	13	106
4	Dining room help.....	74	178	55	3			8
5	Dishwashers.....	122	293	199	161	44	16	100
6	Domestics.....	77	298	72	54	8		50
7	General housework.....	524	1,050	440	223	95	8	163
8	Hotel help.....		3	1	2	3		
9	House keepers.....	5	104	128	88	26	7	19
10	House work.....	192	576	503	141	49	38	25
11	Kitchen help.....	93	184	217	135	48	21	57
12	Laundresses.....	18	95	148	48	1		16
13	Nurse girls.....	26	5					
14	Pantry work.....	27	64	17	8	3		2
15	Reception service.....	1	1					
16	Scrub women.....	9	183	234	137	64	1	26
17	Second work.....	101	135	49	22			8
18	Silver girls.....		2					
19	Vegetable cleaners.....	4	1	1				
20	Waitresses.....	202	392	52	3			24
21	Washerwomen.....		1	1	1			
	PERSONAL SERVICE.....	2	8	6	2			3
1	Attendants.....		2	1	1			
2	Companions.....	1	5	5				2
3	Lady's maids.....	1	1		1			
4	Matrons.....							1
	PROFESSIONAL.....	100	77	33	23	13		8
1	Governess.....		2					
2	Nurses.....	100	75	32	23	13		8
3	Teachers.....			1				

Table 10—Concluded.

CLASSIFICATION OF OCCUPATION.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
TRADES.....	10	70	20	5	4	.....	7
Milliners.....	.....	5	.....	.....	.....	.....	.....
Seamstresses.....	10	69	20	5	4	.....	7
MISCELLANEOUS.....	462	239	76	20	6	.....	15
Agents.....	.....	1	.....	.....	.....	.....	.....
Apprentices.....	1	.....	.....	.....	.....	.....	.....
Copyists.....	.....	.....	1	.....	.....	.....	.....
Factory work.....	434	218	61	16	5	.....	10
Folders, circular.....	10	2	.....	.....	.....	.....	.....
Janitresses.....	1	3	10	3	1	.....	2
Proof readers.....	.....	1	1	.....	.....	.....	.....
Type writers.....	.....	1	.....	.....	.....	.....	.....
Not stated.....	1	13	3	1	.....	.....	3

A summary of the foregoing table is found in the table following:

TABLE 11—Summary of Age Periods of Applicants, by Classified Occupations.

SEX AND CLASSES OF OCCUPATIONS.	Number of occupa- tions of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
.....	.....	23,763	2,550	9,871	7,750	2,682	598	115	197
.....	.....	13,730	2,451	5,002	3,187	1,630	540	127	793
.....—Males.....	.....	10,73	41.54	32.61	11.29	2.52	.48	.83	
.....—Females.....	.....	17.85	36.43	23.21	11.87	3.93	.93	5.78	
.....	7	1,330	147	590	417	142	21	.....	13
.....	13	618	114	316	123	43	17	2	3
.....	14	482	243	144	66	23	5	.....	1
.....—vice.....	10	3,108	244	1,082	988	513	181	45	55
.....	4	10,497	387	4,505	4,015	1,268	231	50	46
.....	5	22	.....	10	7	4	1	.....	.....
.....	66	1,959	214	895	580	210	47	6	7
.....	11	1,561	149	712	500	136	23	.....	41
.....	32	4,186	1,052	1,617	1,054	348	72	12	31

Table 11—Concluded.

SEX AND CLASSES OF OCCUPATIONS.	Number of occupa- tions of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
<b>FEMALES—</b>									
Clerical .....	3	363	206	125	22	5			5
Commercial .....	12	157	57	73	19	7	1		
Domestic service .....	21	12,001	1,614	4,410	3,011	1,568	516	127	755
Personal service .....	4	21	2	8	6	2			3
Professional .....	3	254	100	77	33	23	13		8
Trades .....	2	116	10	70	20	5	4		7
Miscellaneous .....	9	818	462	239	76	20	6		15

The percentages in the above table show that 41.54 per cent of the male applicants were between the ages of 20 and 30 years and 36.43 per cent of the females. Of the total males 17,621, or 74.15 per cent, were between the ages of 20 and 40 years, 14.29 per cent over 40 years, and 10.85 per cent under 20 years. Of the male applicants for manual labor 96.88 per cent were under 50 years of age, and 88.26 per cent of female applicants for domestic service.

## CONJUGAL CONDITIONS.

In the following table is shown the conjugal conditions of both males and females by classified occupations:

TABLE 12—*Conjugal Conditions, Members of Trades Unions, Days Idle, and Number Willing to Accept Work Out of City.*

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number mar- ried.	Number single	Number of de- pendent chil- dren.			
	MALES .....23,763	5,501	18,262	7,056	1,373	16	12,408
	North Side Office .....	1,569	2,593	1,768	255	14	478
	South Side Office .....	1,328	6,703	1,921	581	5	6,301
	West Side Office .....	1,311	5,665	1,892	372	28	4,233
	Peoria Office.....	1,293	3,301	1,475	165	20	1,376
	AGRICULTURAL.....	297	1,033	564	27	48	1,196
1	Dairymen.....	3	11	7		14	14
2	Farmers.....	24	75	14		14	84
3	Farm hands.....	192	731	390	13	62	923
4	Florists.....	4	7	11		19	9
5	Gardeners.....	11	33	28		63	30
6	Harvest hands.....	16	24	28		18	40
7	Stockmen.....	47	152	86	14	6	98

Table 12.—Continued

CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren.			
CLERICAL .....	119	499	150	7	28	279
Bookkeepers .....	22	44	26		49	45
Clerks, bill .....	2		2		27	2
Clerks, drug .....	1	2			15	3
Clerks, dry goods .....		2			14	2
Clerks, general .....	54	292	56		63	113
Clerks, grocery .....	10	21	9	2	33	21
Clerks, hotel .....	2	2	3		26	2
Clerks, office .....	3	17	1		13	18
Clerks, shipping .....	12	29	30	1	58	24
Coal weighers .....		2			22	2
Stenographers .....	2	30	5		37	12
Stock keepers .....	10	57	18	4	14	33
Time keepers .....	1	1			6	2
COMMERCIAL .....	103	379	108	10	39	154
Agents .....	10	22	14		43	24
Boys, cash .....		23			3	
Boys, delivery .....		133			9	
Boys, office .....		55			41	7
Canvassers .....	14	21	3		34	18
Cashiers .....		3			19	1
Checkers .....	1	4	1		12	1
Collectors .....	10	31	6	1	56	13
Distributors .....		3			13	2
Doormen .....		3			4	2
Draughtsmen .....	1	4	2		12	4
Salesmen .....	53	36	66	3	101	55
Solicitors .....	6	27	5	2	31	16
Wholesalers .....	8	14	11	4	9	11
DOMESTIC SERVICE .....	507	2,601	565	133	36	1,743
Butlers .....		11			6	
Carpet layers .....	2	2			9	3
Cooks .....	127	308	90	56	44	253
Dishwashers .....	28	387	5		20	268
Housemen .....	125	700	102		39	417
Kitchen work .....	29	139	25	2	28	95
Pantry work .....	1	2	2		10	
Panwashers .....		3			4	
Porters .....	109	768	169	6	39	486
Waiters .....	86	281	163	69	37	221
MANUAL LABOR .....	2,356	8,141	2,860	116	69	6,311
Coal heavers .....		1			12	1
Laborers .....	2,323	7,788	2,828	112	71	5,947
Laborers, railroad .....	17	334	8		17	351
Shovelers .....	16	18	24	4	6	12
PROFESSIONAL .....	6	16	5		36	12
Architects .....	1					
Artists .....	3		3		28	2
Nurses .....	2	13	1		40	10
Pharmacists .....	1		1		12	
Teachers .....	1					

Table 12.—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number mar- ried.	Number single	Number of de- pendent chil- dren.			
	TRADES .....	773	1,186	1,120	559	68	913
1	Bakers .....	17	37	25	16	60	35
2	Barbers .....	2	6	4	5	23	6
3	Bartenders .....	10	29	4	4	38	30
4	Bench hands .....	8	15	12	2	20	3
5	Blacksmiths .....	66	47	76	39	64	49
6	Boilermakers .....	3	4	5	3	41	6
7	Bookbinders .....	1	3	2		69	2
8	Boxmakers .....	6	32	11	11	15	31
9	Brass finishers .....	1	4	1	1	26	3
10	Brick layers .....	1	4	2		40	4
11	Bridge builders .....	1				30	
12	Butlers .....	14	24	23	12	42	25
13	Cabinet makers .....	10	12	15	5	48	6
14	Calcinimers .....	1	1	2		10	
15	Candy makers .....	1	1			18	1
16	Carpenters .....	111	82	102	61	45	68
17	Cigarmakers .....		2			30	1
18	Coal miners .....	10	12	18	19	18	22
19	Compositors .....	1	1	2		9	2
20	Coremakers .....	2	5			32	2
21	Deck hands .....		2				2
22	Drillpress men .....	6	44	17	5	23	14
23	Electricians .....	15	32	15	16	73	22
24	Engineers .....	63	46	118	39	74	36
25	Firemen .....	61	110	113	44	90	89
26	Glass workers .....	1				60	
27	Harness makers .....	1	5	2	2	28	2
28	Horse shoers .....	2	1	3		15	2
29	Ironworkers .....	8	15	16	1	28	6
30	Lathe hands .....	2	13	4		47	8
31	Lathers .....	1			1	30	
32	Laundrymen .....	8	36	25	21	27	20
33	Locksmiths .....	2	3	4		16	4
34	Machine hands .....	21	110	20	9	58	53
35	Machinists .....	104	186	156	87	155	120
36	Masons .....	1	1			21	
37	Metal workers .....	6	5	7	3	51	4
38	Millers .....	1				90	1
39	Millwrights .....	9	1	19	2	33	7
40	Molders .....	10	8	15	8	47	12
41	Packers .....	31	79	34	2	58	38
42	Painters .....	68	101	101	63	69	46
43	Paper hangers .....	4	3	6	3	74	5
44	Patternmakers .....	8		16	2	37	3
45	Photographers .....	1	1	3		14	
46	Pipe fitters .....		1		1	7	
47	Plasterers .....	2	4	2	3	19	5
48	Plumbers .....	3	11	5	7	82	8
49	Polishers, metal .....		4			12	1
50	Polishers, not stated .....	2	1	1	2	61	2
51	Pressers .....		3		2	6	2
52	Pressmen .....	4	4	1	1	95	1
53	Printers .....	6	10	5	3	104	7
54	Punchpress hands .....	4	30	4	4	40	17
55	Roofers .....	1	1			7	
56	Sawyers .....	2	3	4	2	29	3
57	Shoemakers .....	4	5	7	2	60	2
58	Steamfitters .....	8	5	17	4	46	8
59	Stone cutters .....	1	1	2		18	1
60	Tailors .....	2	6	5	4	26	5
61	Telegraphers .....		1				1
62	Tinsmiths .....	15	12	24	8	50	11
63	Toolmakers .....	4	2	10	13	5	4
64	Upholsterers .....	5	3	16		24	13
65	Watchmakers .....	1		21	6	57	
66	Woodworkers .....	11	5				

Table 12—Continued.

CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren.			
<b>TRANSPORTATION</b> .....	442	1,119	556	436	55	524
Barnmen .....	72	230	64	66	54	126
Brakemen .....	10	10	1	1	33	3
Coachmen .....	15	61	9	52	52	35
Conductors .....	2	7	7	30	30	65
Drivers .....	127	221	88	81	65	80
Elevatormen .....	22	136	27	43	46	23
Hostlers .....	11	50	24	3	20	2
Railroadmen .....	5	5	6	6	6	187
Sailors .....	1	1	1	15	15	3
Teamsters .....	189	396	334	241	58	187
Truckmen .....	4	9	3	1	15	3
<b>MISCELLANEOUS</b> .....	898	3,288	1,128	105	56	1,276
Apprentices .....	2	45	19	19	17	6
Blacksmiths' helpers .....	6	9	11	1	29	6
Bootblacks .....	46	46	3	3	41	25
Boys .....	358	358	38	38	25	1
Boys, bell .....	37	37	22	22	1	8
Boys, elevator .....	6	6	10	10	8	2
Boys, errand .....	76	76	27	27	8	2
Boys, factory .....	28	28	8	8	8	2
Carriage and wagon washers .....	6	15	13	7	8	2
Cleanse, harness .....	2	2	12	12	409	2
Factory hands .....	424	1,334	523	20	72	2
Foremen .....	3	7	7	10	10	2
Foundrymen .....	1	2	1	10	10	2
Furnace tender .....	1	1	2	2	2	2
Guards, railroad .....	2	5	2	10	10	2
Ice cutters .....	8	9	14	1	10	2
Interpreters .....	2	2	11	11	2	117
Janitors .....	97	196	123	22	82	3
Linemen .....	1	5	1	190	190	3
Malsters .....	1	1	1	1	1	3
Models .....	1	1	1	1	1	3
Office help .....	7	24	8	82	82	3
Oilers .....	2	5	4	2	11	3
Pinsetters .....	27	27	4	4	10	10
Silvermen .....	1	1	5	5	10	2
Stovemmen .....	2	1	1	1	36	46
Vise hands .....	1	3	2	2	27	81
Watchmen .....	90	60	125	3	147	5
Window washers .....	121	312	143	15	27	58
Wood finishers .....	1	6	2	2	36	435
Yardmen .....	30	137	29	1	34	34
Not classified .....	94	539	116	27	36	36
<b>FEMALES</b> .....	13,730	4,054	9,676	2,618	8	3,214
North Side Office .....	1,369	2,578	757	11	75	2,499
South Side Office .....	797	4,167	611	5	295	345
West Side Office .....	1,179	1,414	964	9	7	7
Peoria Office .....	709	1,517	286	7	7	7
<b>CLERICAL</b> .....	32	331	19	70	80	80
Bookkeepers .....	8	31	2	99	12	12
Office work .....	19	198	11	76	35	35
Stenographers .....	5	102	6	48	48	48

Table 12—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work at 10¢ per day.
		Number mar- ried.	Number single	Number of de- pendent chil- dren.			
	COMMERCIAL . . . . .	50	107	27		47	
1	Addressers . . . . .	2	12			48	
2	Bottle labelers . . . . .		8			6	
3	Canvassers . . . . .	12	6	4		25	
4	Cashiers . . . . .	7	27	8		40	
5	Clerks . . . . .	12	36	6		68	
6	Collectors . . . . .	1					
7	Demonstrators . . . . .	2	3	1		34	
8	Distributors . . . . .	1	1			7	
9	Mail order help . . . . .	1	1			90	
10	Saleswomen . . . . .	1	1			15	
11	Solicitors . . . . .	11	3	8		39	
12	Wrappers . . . . .		9			19	
	DOMESTIC SERVICE . . . . .	3,802	8,199	2,389		18	2
1	Chambermaids . . . . .	246	718	87		20	
2	Cooks . . . . .	414	709	217		26	
3	Dayworkers . . . . .	699	160	613		18	
4	Diningroom help . . . . .	58	260	24		31	
5	Dishwashers . . . . .	429	506	290		20	
6	Domestics . . . . .	161	338	44		15	
7	General housework . . . . .	495	2,008	112		14	
8	Hotel help . . . . .	4	5	2		1	
9	Housekeepers . . . . .	235	142	91		43	
10	Housework . . . . .	39	1,485	63		5	
11	Kitchen help . . . . .	266	489	192		14	
12	Laundresses . . . . .	145	181	155		19	
13	Nurse girls . . . . .	2	29	3		4	
14	Pantry work . . . . .	31	90	27		35	
15	Reception service . . . . .	1	1				
16	Scrubwomen . . . . .	453	203	392		15	
17	Second work . . . . .	17	298	8		13	
18	Silver girls . . . . .	2	2			2	
19	Vegetable cleaners . . . . .	2	4	2		3	
20	Waitresses . . . . .	102	571	63		24	
21	Washerwomen . . . . .	3		4		1	
	PERSONAL SERVICE . . . . .	5	16			40	
1	Attendants . . . . .	1	3			13	
2	Companions . . . . .	3	10			52	
3	Lady's maids . . . . .	1	2			12	
4	Matrons . . . . .		1				
	PROFESSIONAL . . . . .	53	201	59		35	
1	Governesses . . . . .		2				
2	Nurses . . . . .	53	196	59		35	
3	Teachers . . . . .		1			30	
	TRADES . . . . .	33	83	29		20	
1	Milliners . . . . .		1			21	
2	Seamstresses . . . . .	33	82	29		20	

Table 12.—Concluded.

CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
	Number mar- ried.	Number single	Number of de- pendent chil- dren.			
MISCELLANEOUS .....	79	739	95	.....	120	52
Agents .....		1				
Apprentices .....		1			35	
Copyists .....		1				
Factory work .....	51	693	45		122	43
Folders, circular .....		12			24	
Janitresses .....	18	2	23		45	
Proofreaders .....		2				2
Typewriters .....		1				1
Not stated .....	10	26	27		146	7

This table is recapitulated and presented as follows:

TABLE 13—Summary of Conjugal Conditions, Members of Trade Unions, days idle and Number Willing to accept work out of the City, with Percentages.

OCCUPATIONS.		Totals.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average number of days idle.	Number willing to work out of city.
SEX AND CLASSIFICATION OF OCCUPATIONS.	Number of oc- cupations in each class.		Number married.	Number single.	Number of de- pendent children.			
Males .....	162	23,763	5,501	18,262	7,056	1,373	16	12,408
Females .....	54	13,730	4,054	9,676	2,618	.....	8	3,214
Percentage—males .....			23.15	76.85		5.78		52.22
Percentage—females .....			29.53	70.47				23.41
MALES—								
Agricultural .....	7	1,330	297	1,033	564	27	48	1,196
Clerical .....	13	618	119	499	150	7	28	279
Commercial .....	14	482	103	379	108	10	39	154
Domestic service .....	10	3,108	507	2,601	565	133	36	1,743
Manual labor .....	4	10,497	2,356	8,141	2,860	116	69	6,311
Professional .....	5	22	6	16	5		36	12
Trades .....	66	1,959	773	1,186	1,120	539	68	913
Transportation .....	11	1,561	442	1,119	556	436	55	524
Miscellaneous .....	32	4,186	898	3,288	1,128	105	56	1,278



Table 13--Concluded.

OCCUPATIONS.		Total.	CONJUGAL CONDITIONS.			Number member of trades unions.	Average number of days idle.	Number willing to work out of city.
SEX AND CLASSIFICATION OF OCCUPATIONS.	Number of oc- cupations in each class.		Number married.	Number single.	Number of de- pendent children.			
FEMALES—								
Clerical .....	3	363	32	331	19		70	80
Commercial .....	12	157	50	107	27		47	29
Domestic service.....	21	12,001	3,802	8,199	2,389		18	2,965
Personal service .....	4	21	5	16			40	10
Professional.....	3	254	53	201	59		35	63
Trades.....	2	116	33	83	29		20	15
Miscellaneous.....	9	818	79	739	95		120	52

Of the male applicants for employment it is shown that 5,501 or 23.15 per cent were married, having 7,056 dependent children, indicating less than three members to each family. There were only 1,373 or 5.78 per cent registered as members of trade unions, about one-half the number reported last year.

The average number of days of idleness is 16, which is double the number reported for last year. Of the total number of male applicants 12,408 or 52.22 per cent registered as willing to accept positions outside of cities.

Referring to the females registering for employment, it will be seen that the total number, 4,054 or 29.53 per cent were married, having 2,618 dependent children. The average number of days of idleness to each female was eight, two more than reported for last year; the number willing to accept employment outside of the cities was 3,214 or 23.41 per cent.



## NATIONALITY.

The nationality of all applicants by classified occupations is

TABLE 14—*Nationality of all*

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	<b>MALES.</b> .....	12,297	206	334	235	259	436	138	3,425
	North Side Office.....	2,153	6	7	9	23	73	6	740
	South Side Office.....	3,039	135	173	179	156	174	63	1,101
	West Side Office.....	3,108	54	144	45	80	181	57	1,241
	Peoria Office.....	3,997	11	10	2	.....	8	12	343
	<b>AGRICULTURAL</b> .....	596	16	25	30	24	32	2	199
1	Dairymen.....	8	.....	.....	.....	.....	.....	.....	6
2	Farmers.....	65	.....	.....	1	4	.....	.....	8
3	Farmhands.....	382	15	14	24	20	20	2	140
4	Florists.....	4	.....	.....	1	.....	1	.....	3
5	Gardeners.....	20	.....	2	1	.....	1	.....	10
6	Harvest hands.....	32	1	1	.....	.....	.....	.....	6
7	Stockmen.....	85	.....	8	3	.....	10	.....	26
	<b>CLERICAL</b> .....	342	3	7	12	4	32	6	80
1	Bookkeepers.....	47	.....	1	1	.....	5	.....	6
2	Clerks, bill.....	1	.....	.....	.....	.....	1	.....	.....
3	Clerks, drug.....	1	.....	1	.....	.....	.....	.....	1
4	Clerks, dry goods.....	.....	.....	.....	.....	.....	.....	.....	1
5	Clerks, general.....	199	2	5	5	4	13	4	45
6	Clerks, grocery.....	12	.....	.....	1	.....	3	.....	7
7	Clerks, hotel.....	3	.....	.....	.....	.....	1	.....	.....
8	Clerks, office.....	9	.....	.....	.....	.....	.....	.....	3
9	Clerks, shipping.....	18	.....	.....	3	.....	2	1	4
10	Coal weighers.....	2	.....	.....	.....	.....	.....	.....	.....
11	Stenographers.....	24	.....	.....	.....	.....	1	1	3
12	Stockkeepers.....	25	1	.....	.....	.....	3	.....	10
13	Timekeepers.....	1	.....	.....	.....	.....	.....	.....	.....
	<b>COMMERCIAL</b> .....	354	.....	3	12	3	17	4	29
1	Agents.....	10	.....	.....	6	.....	5	1	1
2	Boys, cash.....	14	.....	.....	1	.....	1	.....	2
3	Boys, delivery.....	120	.....	2	2	.....	1	1	2
4	Boys, office.....	35	.....	.....	1	3	.....	.....	5
5	Canvassers.....	28	.....	.....	1	.....	2	.....	3
6	Cashiers.....	3	.....	.....	.....	.....	.....	.....	.....
7	Checkers.....	4	.....	.....	.....	.....	.....	.....	1
8	Collectors.....	33	.....	.....	.....	.....	1	.....	3
9	Distributors.....	3	.....	.....	.....	.....	.....	.....	.....
10	Doormen.....	2	.....	.....	.....	.....	.....	.....	.....
11	Draughtsmen.....	4	.....	.....	.....	.....	.....	.....	.....
12	Salesmen.....	69	.....	.....	1	.....	3	1	6
13	Solicitors.....	21	.....	.....	.....	.....	2	1	2
14	Wholesalemen.....	8	.....	1	.....	.....	2	.....	4
	<b>DOMESTIC SERVICE</b> .....	1,488	35	26	52	28	70	39	482
1	Butlers.....	5	.....	.....	.....	.....	.....	.....	1
2	Carpet layers.....	2	.....	.....	.....	.....	1	.....	.....
3	Cooks.....	248	7	2	9	1	13	18	36
4	Dishwashers.....	118	8	7	29	4	10	4	64
5	Housemen.....	293	10	7	6	10	14	2	194
6	Kitchen work.....	72	3	2	1	.....	7	3	27
7	Pantrymen.....	.....	.....	.....	.....	.....	.....	.....	2
8	Panwashers.....	3	.....	.....	.....	.....	.....	.....	.....
9	Porters.....	523	7	8	.....	8	15	8	11
10	Waiters.....	224	.....	.....	.....	7	10	.....	11



Table 14—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MANUAL LABOR.....	5,401	91	145	56	126	88	37	1,510
1	Coal heavers.....								
2	Laborers.....	5,205	88	138	54	120	79	36	1,453
3	Laborers, railroad.....	175	3	7	2	6	9	1	48
4	Shovelers.....	21							9
	PROFESSIONAL.....	10					2	1	3
1	Architects.....	1							
2	Artists.....	1					1		
3	Nurses.....	7					1	1	2
4	Pharmacists.....	1							
5	Teachers.....								1
	TRADES.....	934	16	49	23	16	72	21	358
1	Bakers.....	16		2	1	1	2	3	20
2	Barbers.....	3							3
3	Bartenders.....	19		1	1	1	2		7
4	Bench hands.....	10		1					7
5	Blacksmiths.....	77		2	1		2		15
6	Boiler makers.....	2			1		2		1
7	Book binders.....	2							1
8	Box makers.....	16	1	1	1	2	1		5
9	Brass finishers.....	4							
10	Brick layers.....	2							
11	Bridge builders.....								
12	Butchers.....	12			1	2	5	1	8
13	Cabinet makers.....	4	1		1		1	1	5
14	Calcininers.....	2							
15	Candy makers.....	2							
16	Carpenters.....	91	6	2	1		5	1	31
17	Cigar makers.....	2							
18	Coal miners.....	10					2		2
19	Compositors.....	2							
20	Core makers.....	2		2					1
21	Deck hands.....								
22	Drill pressman.....	27	1	2			1		10
23	Electricians.....	27		1	1		2		5
24	Engineers.....	67			2		8	2	11
25	Fireman.....	90	2	2	3		7	2	22
26	Glass workers.....								1
27	Harness makers.....	4							2
28	Horseshoer.....	1							1
29	Iron workers.....	6		2		1	1		5
30	Lathe hands.....	7							4
31	Lathers.....	1							
32	Laundry men.....	26		2				2	10
33	Locksmiths.....								4
34	Machine hands.....	58		6		4	3		34
35	Machinists.....	101	1	9	1	1	12	7	48
36	Masons.....	1							1
37	Metal workers.....	3		3					
38	Millers.....								
39	Millwrights.....	9							
40	Molders.....	10	1				1		3
41	Packers.....	48		2	3	1	3		23
42	Painters.....	87		3	3	1	7	2	18
43	Paper hangers.....	5			1				
44	Pattern makers.....	3					1		2
45	Photographers.....	1							1
46	Pipe fitters.....	1							
47	Plasterers.....	3							1
48	Plumbers.....	6							4
49	Polishers metal.....	2		1					
50	Polishers, not stated.....								
51	Pressers.....	1				1			
52	Pressmen.....	4							



Table 14—

Number.	CLASSIFICATION OF OCCUPATION.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	<b>TRADES—Concluded.</b>								
53	Printers.....	10				1			3
54	Punch press hands.....	10		2			3		8
55	Roofers.....	2							4
56	Sawyers.....	2							3
57	Shoe makers.....	4							4
58	Steam fitters.....	7							4
59	Stone cutters.....		1						
60	Tailors.....	3		1					3
61	Telegraphers.....	1							
62	Tinsmiths.....	9					1		8
63	Tool makers.....	2	1						
64	Upholsterers.....	2		1					3
65	Watchmakers.....			1					
66	Woodworkers.....	5		1		1			3
	<b>TRANSPORTATION</b> .....	906	11	22	24	7	40	10	213
1	Barrenmen.....	178	1	2	8	1	12		45
2	Brakemen.....	7							1
3	Coachmen.....	36					10		12
4	Conductors.....	1							
5	Drivers.....	206		4		3			35
6	Elevator men.....	69	3	8	7	2	3	9	16
7	Hostlers.....	30	1	3	1		1		9
8	Railroad men.....	1							
9	Sailors.....						7		
10	Teamsters.....	374	6	5	4	1	1	1	93
11	Truckmen.....	4			2				2
	<b>MISCELLANEOUS</b> .....	2,266	34	57	26	51	83	18	551
1	Apprentices.....	33		1	1		2		6
2	Blacksmiths' helpers.....	2							4
3	Boot-blacks.....	29			2				2
4	Boys.....	233		1			6	3	33
5	Boys, bell.....	34							1
6	Boys, elevator.....	6							
7	Boys, errand.....	60				2	1		2
8	Boys, factory.....	28							
9	Carriage and wagon washers.....	11							3
10	Cleaners, harness.....								1
11	Factory hands.....	1,021	24	27	9	21	33	11	195
12	Foremen.....	3							
13	Foundrymen.....	2					1		
14	Furnace tenders.....	1							
15	Guards, railroad.....	2							
16	Ice cutters.....	14							3
17	Interpreters.....		1						
18	Janitors.....	120	2	4	2	7	7	1	40
19	Linemen.....	5							1
20	Malsters.....								1
21	Models.....	1							
22	Office help.....	26			1		2		1
23	Oilers.....	3							2
24	Pinsetters.....	21							2
25	Silvermen.....	1							
26	Stonemen.....	3							
27	Vise hands.....						1		1
28	Watchmen.....	60				2	5		23
29	Window washers.....	163	2	13	2	8	3	1	89
30	Wood finishers.....	2							4
31	Yardmen.....	103	3	2	4	4	2		16
32	Not classified.....	279	2	9	5	7	20	2	121

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
		2	1			1					1	16	53
			8	1								34	54
												2	55
			1									5	56
2												9	57
		1										13	58
												2	59
										1		8	60
5												1	61
1										2	1	27	62
		1					1			2		6	63
								1				8	64
			2				2					1	65
												16	66
146	4	20	13	6	5	14	66	4	2	9	39	1,561	
23		4	1	1	5	5	8	1	2		5	302	1
2												10	2
3		1					13	1				76	3
			1									2	4
43	1	6	5			2	10	2		5	18	348	5
6		1	4	2		3	16			2	7	158	6
8		3				1	2				2	61	7
2							2					5	8
							2					1	9
57	3		2	3		2	14			2	7	585	10
2		4				1	1					13	11
292	33	142	95	28	32	32	273	7	5	97	64	4,186	
1		1				1				1		47	1
1	1	3				1	2					15	2
3			1		3						5	46	3
11	2	3	11	1		1	20			27	6	358	4
2												37	5
												6	6
1			2		2		2			4		76	7
												28	8
5				1			1					21	9
			1									2	10
91	13	56	50	15	8	9	110	3	2	39	16	1,758	11
												3	12
												3	13
												1	14
												2	15
												17	16
				1								2	17
23		18	3			4	52	2		3	5	293	18
												6	19
												1	20
												1	21
1												31	22
1		1										7	23
	2				2							27	24
												1	25
												3	26
		2										4	27
24	1	3	4		3	4	10		1	1	9	150	28
60	4	12	2	3	9	4	35	1	1	7	14	433	29
			1									7	30
14	2	5	2	3		1						167	31
54	3	38	16	4	5	7	41	1	1	15	3	633	32





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nued.

**FEMALES.**

[illegible]

Table 14—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	TRADES .....	78	.....	1	1	2	7	3	5
1	Milliners .....	1	.....	.....	.....	.....	.....	.....	.....
2	Seamstresses .....	77	.....	1	1	2	7	3	5
	MISCELLANEOUS.....	489	.....	14	2	11	7	7	97
1	Agents.....	1	.....	.....	.....	.....	.....	.....	.....
2	Apprentices .....	1	.....	.....	.....	.....	.....	.....	.....
3	Copyists .....	1	.....	.....	.....	.....	.....	.....	.....
4	Factory work.....	442	.....	14	2	11	7	6	82
5	Folders, circular .....	12	.....	.....	.....	.....	.....	.....	.....
6	Janitresses.....	13	.....	.....	.....	.....	.....	.....	3
7	Proofreaders.....	2	.....	.....	.....	.....	.....	.....	.....
8	Typewriters.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Not stated .....	17	.....	.....	.....	.....	.....	1	12

A better reading of this presentation is shown in the following

TABLE 15—Summary of the Nationalities of all

SEX AND CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
Males.....	12,297	206	334	235	259	436	138	3,425
Females.....	5,083	48	204	158	113	251	101	2,063
Percentages—Males .....	53.61	.90	1.46	1.02	1.13	1.90	.60	14.93
Percentages—Females .....	38.84	.37	1.56	1.21	.86	1.92	.77	15.76
MALES—								
Agricultural.....	596	16	25	30	24	32	2	199
Clerical.....	342	3	7	12	4	32	6	80
Commercial.....	354	.....	3	12	3	17	4	29
Domestic service .....	1,488	35	26	52	28	70	39	482
Manuel labor.....	5,401	91	145	56	126	88	37	1,510
Professional.....	10	.....	.....	.....	.....	2	1	3
Trades.....	934	16	49	23	16	72	21	358
Transportation.....	906	11	22	24	7	40	10	213
Miscellaneous .....	2,266	24	57	26	51	83	18	551

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
8			1		4		6					116	1
8			1		4		6					115	2
54	4	13	41	6	5	2	40	4		6	16	818	
												1	1
												1	2
45	4	13	39	6	5	2	40	4		6	16	744	3
3			1									12	4
1			1									20	5
5			1									2	6
												1	7
												36	8
													9

summary:

*Applicants for Employment, by Classified Occupations.*

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
2,465	208	571	386	156	228	194	1,204	156	42	354	459	23,763
2,508	17	402	277	53	187	126	1,416	65	14	161	483	13,730
10.75	.91	2.49	1.68	.68	.99	.85	5.24	.68	.18			
19.17	.13	3.07	2.12	.40	1.43	.96	10.82	.50	.11			
100		43	25	17	39	14	95	26	5	13	29	1,330
41	5	8	9		5	7	26	4	1	16	10	618
24		7	3		1	9	7	2		7		482
238	13	56	27	13	32	17	187	31	6	119	149	3,108
1,505	147	242	158	78	108	72	443	71	18	70	131	10,497
1							2	1		2		22
118	6	53	56	14	6	29	105	10	5	31	37	1,959
146	4	20	13	6	5	14	66	4	2	9	39	1,561
292	33	142	95	28	32	32	273	7	5	97	64	4,186

Table 15—

SEX AND CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
<b>FEMALES—</b>								
Clerical.....	262	.....	.....	9	.....	13	4	30
Commercial.....	105	.....	1	2	.....	1	3	15
Domestic service.....	4,010	48	188	132	100	215	80	1,882
Personal service.....	17	.....	.....	1	.....	.....	1	.....
Professional.....	122	.....	.....	11	.....	8	3	33
Trades.....	78	.....	1	1	2	7	3	4
Miscellaneous.....	489	.....	14	2	11	7	7	97

It will be seen that of the total number of male applicants 823 are classed as miscellaneous and not reported, deducting this number from the total leaves 22,940 divided among 18 different nationalities.

The Americans account for 53.61 per cent; Germans and Hollanders, 14.93; Irish, 10.75; and Swedes, 5.24; a total of 84.53 per cent leaving 15.47 per cent represented by the other 14 nationalities. The largest number of male applicants in any one classification was for manual labor. The total number in this classification, after deducting the miscellaneous and not reported, is 10,296; this is 44.88 per cent of the whole number of applicants. Here again the same four nationalities represent most of the applicants, being 86.04 per cent as follows: Americans, 52.45 per cent; German and Hollanders, 14.67; Irish, 14.62; and Swedes, 4.30; this leaves 13.96 per cent represented by the other 14 nationalities.

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
19	.....	2	1	.....	1	4	14	3	.....	1	.....	363
5	1	.....	6	.....	1	2	9	.....	.....	5	.....	157
2,390	12	383	227	47	175	109	1,325	56	14	149	459	12,001
2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
30	.....	4	1	.....	1	9	22	2	.....	.....	8	254
8	.....	.....	1	.....	4	.....	6	.....	.....	.....	.....	116
54	4	13	41	6	5	2	40	4	.....	6	16	188

Of the females 644 are classed as miscellaneous and not reported; deducting this number from the total gives 13,086 divided among the 18 nationalities. Almost an equal per cent of the total number is accounted for by the same four nationalities as in the males, being 84.59 per cent. Although the percentage of each nationality of females differ materially from the males, Americans represent 38.84 per cent; Germans and Hollanders, 15.76; Irish, 19.17; Swedes, 10.82; this leaves 15.41 per cent among the 14 other nationalities. Domestic service shows the largest number of females seeking employment, being 11,393, whose nationalities are given; this is 87.06 per cent of the total number. Americans represent 35.20 per cent; Germans and Hollanders, 16.52; Irish, 20.98; Swedes, 11.63; a total of 84.33 per cent.

The reports of the superintendents of the four offices follow:

SIXTH ANNUAL REPORT OF THE NORTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 259 AND 261 NORTH CLARK STREET, CHICAGO, FOR THE YEAR ENDED SEPT. 30, 1904.

(D. M. Brothers, Superintendent.)

HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the law establishing Free Employment offices, I beg to submit the sixth annual report of the business of this office covering the period from October 1, 1903, to September 30, 1904, together with the expense account for the same period.

While the business of this office will show a decrease numerically, the high grade and permanency of positions and applicants is still maintained. The decrease is wholly due to the continuous strikes throughout the year. There has not been a month during the whole year when from one to five of our large industries have not been tied up with strikes and in view of that situation it will be apparent to the public that this office has done remarkably well.

We have been the means of putting out of business a large number of private agencies, organized with a view to defrauding applicants for positions, thus making the business of private agencies unprofitable.

During the year I have received hundreds of letters from all over the United States applying for positions, also from employers wanting help.

Chicago seems to be the rendezvous of the unemployed of the entire country. During the fall and winter months more than fifty per cent of the applicants had been in the city less than one week.

I am still of the opinion that the continuing of advertising through mediums which reach employers is essential for the best interest of the public.

The employer is better satisfied with help secured through these offices, for the reason that our experience enables us to select more nearly the character of help the employer desires and saves the valuable time of the employer from being constantly interrupted by applicants for work.

Respectfully submitted,

D. M. BROTHERS,  
*Superintendent.*

*Statement of Expenses of the North Side Free Employment Office  
from Oct. 1, 1903, to Sept. 30, 1904.*

Office rent.....	\$1,200 00	Postage.....	\$134 00
Telephone service.....	169 50	Advertising.....	322 16
Ice and mineral water.....	30 00	Time clock service.....	12 00
Stenographer's service.....	720 00	Rent of typewriter and desk.....	48 00
Janitor's service.....	600 00	Expenses of trip to Springfield of superintendent.....	80 05
Clerk hire.....	800 00	Miscellaneous sundries, repairs, etc.....	66 19
Toilet supplies.....	24 00		
Gas.....	23 49		
		Total.....	\$4,219 39

*Annual Report of the Chicago North Side Free Employment Office  
to the State Bureau of Labor Statistics, for the Year Ended Sept.  
30, 1904—Applications for Employment and Help, Positions Se-  
cured and the number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Architect.....	1		1		
2	Bakers.....	3		3		
3	Barnmen.....	53	50	3	53	3
4	Bartenders.....	1	1		1	
5	Blacksmiths.....	50	50		61	11
6	Bookbinders.....	2		2		
7	Bookkeepers.....	3	3		3	
8	Boys.....	213	194	19	268	74
9	Bricklayers.....				2	2
10	Butchers.....	3	2	1	3	1
11	Butlers.....	10	7	3	11	4
12	Cabinet makers.....	4		4	2	2
13	Cavassers.....	22	18	4	36	18
14	Carpenters.....	45	45		59	14
15	Carriage and wagon washers.....	2	2		2	
16	Cigar makers.....	1	1		1	
17	Clerks, not stated.....	44	31	13	32	1
18	Coachmen.....	27	26	1	26	
19	Collectors.....	3	2	1	2	
20	Cooks.....	38	32	6	46	14
21	Conductors.....	1	1		1	
22	Dishwashers.....	42	42		46	4
23	Drivers.....	188	182	6	214	32
24	Electricians.....	5	2	3	3	1
25	Elevatormen.....	11	10	1	10	
26	Engineers.....	5	1	4	3	2
27	Factory hands.....	477	461	16	584	123
28	Farmers.....	95	84	11	116	32
29	Firemen.....	8	4	4	4	
30	Gardeners.....	9	7	2	8	1
31	Horseshoers.....	1	1		1	
32	Housemen.....	213	193	20	205	12
33	Janitors.....	65	54	11	60	6
34	Kitchenwork.....	9	9		9	
35	Laborers.....	1,773	1,737	36	2,532	795
36	Lathe hands.....	1	1		1	
37	Machine hands.....	7	2	5	3	1
38	Machinists.....	20	19	1	32	13



*North Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
39	Masons .....	1	1	.....	1	.....
40	Metal workers .....	1	.....	1	.....	.....
41	Molders .....	1	.....	1	6	.....
42	Nurses .....	2	2	.....	2	.....
43	Office help .....	9	1	8	1	.....
44	Packers .....	10	8	2	8	.....
45	Painters .....	79	78	1	89	11
46	Pantrymen .....	1	.....	1	.....	.....
47	Porters .....	115	102	13	108	6
48	Pressmen .....	4	4	.....	4	.....
49	Printers .....	3	.....	3	.....	.....
50	Salesmen .....	5	3	2	11	8
51	Shoemakers .....	1	.....	1	.....	.....
52	Solicitors .....	.....	.....	.....	12	12
53	Steam fitters .....	1	.....	1	.....	.....
54	Stenographers .....	5	1	4	1	.....
55	Stockmen .....	17	12	5	15	3
56	Teamsters .....	166	162	4	202	40
57	Tinsmiths .....	3	3	.....	5	2
58	Waiters .....	22	16	6	19	3
59	Watchmen .....	9	7	2	7	.....
60	Window washers .....	162	161	1	211	50
61	Miscellaneous, not classified .....	90	87	3	101	14
Total males .....		4,162	3,922	240	5,243	1,321
Positions secured, previous applica- tions .....		.....	84	84	.....	84
Yearly total .....		4,162	4,006	156	5,243	1,237
FEMALES.						
1	Addressers .....	1	1	.....	2	1
2	Bookkeepers .....	5	2	3	2	.....
3	Canvassers .....	3	.....	3	9	9
4	Cashiers .....	8	1	7	1	.....
5	Clerks .....	14	7	7	11	4
6	Chambermaids .....	224	207	17	246	39
7	Companions .....	1	.....	1	.....	.....
8	Cooks .....	356	339	17	437	98
9	Dayworkers .....	356	341	15	355	14
10	Dining room help .....	92	84	8	102	18
11	Dishwashers .....	243	231	12	267	36
12	Factory work .....	85	71	14	325	254
13	General housework .....	1,695	1,634	61	1,944	310
14	Housekeepers .....	73	44	29	57	13
15	Janitresses .....	1	1	.....	1	.....
16	Kitchen help .....	202	193	9	224	31
17	Laundresses .....	57	50	7	59	9
18	Matrons .....	1	1	.....	1	.....
19	Nurses .....	96	71	25	90	19
20	Office work .....	16	1	15	2	1
21	Pantry work .....	24	20	4	27	7
22	Scrubwomen .....	92	84	8	106	22
23	Seamstresses .....	33	30	3	47	17
24	Second work .....	145	134	11	170	36
25	Solicitors .....	.....	.....	.....	12	12
26	Stenographers .....	13	1	12	2	1
27	Teachers, not stated .....	1	.....	1	.....	.....
28	Waitresses .....	102	92	10	148	56
29	Miscellaneous, occupations not stated .....	8	8	.....	18	10
Total .....		3,947	3,648	299	4,665	1,017
Positions secured, previous applica- tions .....		.....	122	122	.....	122
Yearly total .....		3,947	3,770	177	4,665	86

SIXTH ANNUAL REPORT OF THE SOUTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 429 WABASH AVENUE, CHICAGO, FOR  
THE YEAR ENDED SEPT. 30, 1904.

(George W. Geary, Superintendent.)

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HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—Complying with section six of the act of the General Assembly, creating the Illinois free employment offices. I herewith submit the sixth annual report of the business of the South Side office for the year ended September 30, 1904, together with the expense of maintaining the office for the same period. This report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

GEORGE W. GEARY,  
*Superintendent.*

*Statement of the Expenses of the South Side Office from Oct. 1, 1903, to Sept. 30, 1904,*

Salary of male clerk.....	\$ 800 00	Ice and water.....	45 00
Salary of female clerk.....	720 00	Advertising.....	400 00
Salary of stenographer.....	720 00	Office furniture, repairs and cleaning.....	150 00
Salary of janitor.....	600 00	Office supplies.....	105 00
Rent of office.....	1,044 00	Total.....	\$4,824 00
Telephone and toll service.....	155 00		
Telegraph service.....	20 00		
Light and power.....	65 00		

*Annual Report of the Chicago Southside Free Employment Office to the State Bureau of Labor Statistics, for the Year Ended Sept. 30, 1904—Applications for Employment and Help, Positions Secured, and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Agents .....	30	16	14	20	4
2	Artists .....	2	1	1	1	
3	Bakers .....	23	19	4	19	
4	Barbers .....	6	4	2	4	
5	Barnmen .....	108	94	14	96	2
6	Bartenders .....	14	12	2	12	
7	Blacksmiths .....	24	17	7	19	2
8	Boiler makers .....	5	5		5	
9	Bookkeepers .....	26	8	18	8	
10	Bootblacks .....	46	44	2	49	5
11	Boxmakers .....	33	30	3	30	
12	Boys, bell .....	14	11	3	12	1
13	Boys, cash .....	23	21	2	23	2
14	Boys, delivery .....	41	38	3	40	2
15	Boys, errand .....	42	41	1	43	2
16	Boys office .....	35	27	8	32	5
17	Butchers .....	28	22	6	22	
18	Cabinet makers .....	2	1	1	2	1
19	Calceiminers .....	2	2		2	
20	Carpet layers .....	4	3		3	
21	Carpenters .....	48	41	7	50	9
22	Carriage and wagon washers .....	14	13	1	14	1
23	Cashiers .....	2	2		2	
24	Clerks, general .....	55	11	44	11	
25	Clerks, drug .....	3	3		3	
26	Clerks, dry goods .....	2	2		2	
27	Clerks, grocery .....	24	14	10	14	
28	Clerks, office .....	20	10	10	10	
29	Clerks, shipping .....	28	21	7	21	1
30	Coachmen .....	24	18	6	18	
31	Collectors .....	3	2	1	2	
32	Cooks .....	252	213	39	219	6
33	Deck hands .....	2	2		2	

*South Side Office—Continued.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfiled.	Number filed.	Number unfiled.
34	Dishwashers.....	289	271	18	271	.....
35	Doormen.....	3	3	.....	3	.....
36	Electricians.....	17	7	10	8	1
37	Elevatormen.....	72	54	18	54	.....
38	Engineers.....	37	20	17	21	1
39	Factory hands.....	195	184	11	184	.....
40	Farm hands.....	418	391	27	501	110
41	Firemen.....	43	28	15	28	.....
42	Florists.....	10	6	4	6	.....
43	Gardeners.....	17	15	2	15	.....
44	Guards, railroad.....	2	2	.....	2	.....
45	Harness makers.....	4	4	.....	4	.....
46	Hostlers.....	11	11	.....	11	.....
47	Housemen.....	481	427	54	429	2
48	Interpreters.....	2	2	.....	2	.....
49	Janitors.....	108	83	25	84	1
50	Kitchenwork.....	137	130	7	131	1
51	Laborers.....	3,313	3,285	28	3,740	455
52	Laborers, railroad.....	236	236	.....	236	.....
53	Laundrymen.....	35	27	8	27	.....
54	Machinists.....	37	23	14	23	.....
55	Millwrights.....	3	3	.....	3	.....
56	Miners.....	17	17	.....	107	90
57	Molders.....	4	4	.....	4	.....
58	Models.....	1	1	.....	1	.....
59	Nurses.....	8	6	2	6	.....
60	Packers.....	41	37	4	37	.....
61	Painters.....	26	18	8	19	1
62	Paper hangers.....	2	1	1	1	.....
63	Pantrymen.....	1	1	.....	1	.....
64	Photographers.....	1	.....	1	.....	.....
65	Pin setters.....	27	27	.....	27	.....
66	Plasterers.....	1	1	.....	1	.....
67	Plumbers.....	10	10	.....	11	1
68	Polishers, metal.....	3	3	.....	3	.....
69	Porters.....	492	435	57	437	2
70	Pressmen.....	2	.....	2	.....	.....
71	Printers.....	2	.....	2	.....	.....
72	Salesmen.....	17	9	8	11	2
73	Shoemakers.....	4	3	1	3	.....
74	Solicitors.....	7	6	1	15	9
75	Steam fitters.....	6	1	5	6	5
76	Stenographers.....	17	14	3	14	.....
77	Stockmen.....	182	174	8	206	32
78	Tailors.....	3	2	1	2	.....
79	Teamsters.....	105	91	14	93	12
80	Telegraphers.....	1	.....	1	.....	.....
81	Tinsmiths.....	10	8	2	10	2
82	Upholsterers.....	6	6	.....	6	.....
83	Waiters.....	291	257	34	253	1
84	Watchmakers.....	1	.....	1	.....	.....
85	Watchmen.....	51	40	11	40	.....
86	Window washers.....	149	144	5	147	3
87	Wood workers.....	2	2	.....	2	.....
88	Yardmen.....	86	82	4	82	.....
Total males.....		8,031	7,380	651	8,144	764

*South Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed	Number posi- tions secured	Number unfiled.	Number filed.	Number unfiled
FEMALES.						
1	Agents.....	1	.....	1	5	5
2	Bookkeepers.....	12	2	10	3	1
3	Cash girls.....	9	2	7	2	.....
4	Cashiers.....	10	7	3	7	.....
5	Chambermaids.....	406	404	2	437	33
6	Companions.....	4	1	3	1	.....
7	Cooks.....	465	458	7	551	93
8	Dayworkers.....	184	184	.....	188	4
9	Dishwashers.....	403	403	.....	422	19
10	Factory work.....	248	237	11	347	110
11	Housekeepers.....	101	75	26	94	19
12	Housework.....	1,524	1,486	38	1,924	438
13	Janitresses.....	1	.....	1	.....	.....
14	Kitchen help.....	305	304	1	319	15
15	Lady's maid.....	1	.....	1	.....	.....
16	Laudresses.....	140	137	3	156	19
17	Nurses.....	81	67	14	79	12
18	Office work.....	88	59	29	59	.....
19	Pantry work.....	47	47	.....	48	1
20	Saleswomen.....	2	2	.....	6	4
21	Scrubwomen.....	323	323	.....	344	21
22	Seamstresses.....	46	39	7	43	4
23	Second work.....	90	89	1	104	15
24	Solicitors.....	2	1	1	10	9
25	Stenographers.....	49	11	38	11	.....
26	Waitresses.....	422	410	12	482	72
Total, females.....		4,964	4,748	216	5,642	894

SIXTH ANNUAL REPORT OF THE WEST SIDE ILLINOIS FREE EMPLOYMENT OFFICE, CORNER CANAL AND RANDOLPH STREETS,  
CHICAGO, FOR THE YEAR ENDED SEPT. 30, 1904.

(S. P. Revere, Superintendent.)

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HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the act of the General Assembly of the State creating the Illinois Free Employment offices, I herewith submit the sixth annual report of the business transacted in this office for the year ended September 30, 1904, together with the expense account for the same period.

The report shows a decrease in applications for help from last year, caused in a great measure from labor troubles and unsettled conditions in the industrial world.

The coming year no doubt will see a better condition of affairs all around and we look forward to a very successful year for the free employment offices.

The following report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

S. P. REVERE,  
*Superintendent.*

*Statement of the Expenses of the West Side Free Employment Office from Oct. 1, 1903, to Sept. 30, 1904.*

Rent of office.....	\$ 590 00	Repainting signs.....	\$ 43 00
Telephone service.....	127 75	Advertising.....	419 90
Gas.....	33 54	Postage.....	90 00
Ice.....	28 70	Miscellaneous.....	138 90
Toilet supplies.....	18 00		
Trips to Springfield.....	65 70	Total.....	\$1,721 43
Cleaning, painting and repairing.....	165 94		

*Annual Report of the Chicago West Side Free Employment Office to the State Bureau of Labor Statistics, for the year ended Sept. 30, 1904—Applications for Employment and Help, Positions Secured, and the number remaining unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
	<b>MALES.</b>					
1	Agents.....	2		2		
2	Any light work.....	31		31		
3	Apprentices.....	34	1	33	1	
4	Artists.....	2		2		
5	Bakers.....	18	4	14	4	
6	Barbers.....	2	1	1	1	
7	Barnmen.....	32	20	12	20	
8	Bartenders.....	23	1	22	3	2
9	Bench hands.....	23		23		
10	Blacksmiths.....	20	6	14	8	2
11	Blacksmith helpers.....	15	3	12	3	
12	Boiler makers.....	1		1		
13	Bookbinders.....	2		2		
14	Bookkeepers.....	27		27		
15	Boxmakers.....	5	1	4	1	
16	Boys.....	139	65	74	70	5
17	Boys, bell.....	1		1		
18	Boys, errand.....	1		1	1	1
19	Boys, office.....	11	4	7	4	
20	Brakemen.....	4		4		
21	Brass finishers.....	5		5		
22	Bricklayers.....	5	2	3	2	
23	Bridge builders.....	1		1		
24	Butchers.....	6	2	4	2	
25	Butlers.....	1		1		
26	Cabinet makers.....	16	3	13	3	
27	Canvassers.....	3		3		2
28	Carpenters.....	61	9	52	9	
29	Carriage and wagon washers.....	5	4	1	5	1
30	Cashiers.....	1		1		
31	Checkers.....	5	3	2	3	
32	Cigar makers.....	1		1		
33	Circular distributors.....	1		1		

*West Side Office—Continued.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
34	Cleaners, harness .....	2	.....	2	.....	.....
35	Clerks, bill .....	2	.....	2	.....	.....
36	Clerks, grocery .....	3	.....	3	.....	.....
37	Clerks, hotel .....	3	.....	3	.....	.....
38	Clerks, shipping .....	10	.....	10	.....	.....
39	Clerks, not stated .....	242	9	233	9	.....
40	Coachmen .....	13	4	9	4	.....
41	Coal heavers .....	1	.....	1	.....	.....
42	Collectors .....	19	2	17	2	.....
43	Compositors .....	2	.....	2	.....	.....
44	Cooks .....	52	16	36	19	3
45	Conductors .....	1	.....	1	.....	.....
46	Coremakers .....	7	.....	7	.....	.....
47	Dishwashers .....	25	12	13	12	.....
48	Draughtsmen .....	5	.....	5	.....	.....
49	Drill pressmen .....	50	.....	50	.....	.....
50	Drivers .....	133	47	91	49	2
51	Electricians .....	22	.....	22	.....	.....
52	Elevatormen .....	75	3	72	4	1
53	Engineers .....	50	3	47	3	.....
54	Factory hands .....	779	357	422	357	.....
55	Farmers .....	4	.....	4	.....	.....
56	Farm hands .....	344	224	120	239	15
57	Firemen .....	94	11	83	11	.....
58	Foremen .....	3	.....	3	.....	.....
59	Foundrymen .....	3	.....	3	.....	.....
60	Furnace tenders .....	1	.....	1	.....	.....
61	Gardeners .....	4	.....	4	.....	.....
62	Glassworkers .....	1	.....	1	.....	.....
63	Harnessmakers .....	2	.....	2	.....	.....
64	Horseshoers .....	2	1	1	1	.....
65	Hostlers .....	46	30	16	30	.....
66	Housemen .....	95	36	59	38	2
67	Ironworkers .....	22	6	16	6	.....
68	Janitors .....	73	14	59	15	1
69	Kitchenwork .....	11	4	7	4	.....
70	Laborers .....	2,470	2,303	167	2,307	4
71	Lathe hands .....	13	.....	13	.....	.....
72	Lathers .....	1	.....	1	.....	.....
73	Laundrymen .....	8	.....	8	2	2
74	Linemen, electrical .....	2	.....	2	.....	.....
75	Linemen, not stated .....	1	.....	1	.....	.....
76	Locksmiths .....	5	.....	5	.....	.....
77	Machine hands .....	124	4	120	6	2
78	Machinists .....	160	25	135	26	1
79	Metal workers .....	9	.....	9	.....	.....
80	Millers .....	1	.....	1	.....	.....
81	Millwrights .....	7	1	6	1	.....
82	Molders .....	5	.....	5	.....	.....
83	Nurses .....	2	.....	2	.....	.....
84	Office help .....	1	.....	1	.....	.....
85	Oilers .....	7	.....	7	.....	.....
86	Packers .....	57	2	55	2	.....
87	Painters .....	32	6	26	7	1
88	Paper hangers .....	4	1	3	1	.....
89	Pantrymen .....	1	.....	1	.....	.....
90	Pattern makers .....	6	.....	6	.....	.....
91	Photographers .....	1	.....	1	.....	.....
92	Plasterers .....	4	2	2	2	.....
93	Plumbers .....	4	1	3	1	.....
94	Polishers, metal .....	1	.....	1	.....	.....
95	Polishers, not stated .....	3	.....	3	.....	.....
96	Porters .....	179	86	93	89	3
97	Pressers .....	2	.....	2	.....	.....
98	Pressmen .....	2	.....	2	.....	.....



## West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATION FOR HELP	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
99	Printers .....	11	.....	11	.....	.....
100	Punch press hands .....	34	.....	34	.....	.....
101	Railroadmen .....	5	.....	4	.....	.....
102	Sailors .....	1	.....	1	.....	.....
103	Salesmen .....	26	.....	26	.....	.....
104	Sawyers .....	5	.....	5	.....	.....
105	Shoemakers .....	4	.....	4	.....	.....
106	Silvermen .....	1	.....	1	.....	.....
107	Solicitors .....	17	14	3	23	9
108	Steamfitters .....	6	.....	6	.....	.....
109	Stenographers .....	9	.....	9	.....	.....
110	Stockkeepers .....	67	50	17	52	2
111	Stonecutters .....	2	.....	2	.....	.....
112	Stovemmen .....	1	.....	1	.....	.....
113	Tailors .....	5	.....	5	.....	.....
114	Teachers, not stated .....	1	.....	1	.....	.....
115	Teamsters .....	129	48	81	48	.....
116	Timekeepers .....	2	.....	2	.....	.....
117	Tinsmiths .....	13	2	11	3	1
118	Toolmakers .....	6	.....	6	.....	.....
119	Truckmen .....	13	.....	13	.....	.....
120	Upholsterers .....	1	.....	1	.....	.....
121	Vise hands .....	4	.....	4	.....	.....
122	Waiters .....	28	7	21	7	.....
123	Watchmen .....	32	6	26	6	.....
124	Wholesalemenn .....	22	1	21	1	.....
125	Window washers .....	122	120	2	120	.....
126	Wood finishers .....	7	.....	7	.....	.....
127	Woodworkers .....	10	.....	10	.....	.....
128	Yardmen .....	8	4	4	4	.....
129	Miscellaneous, not classified .....	512	321	191	332	11
Total males .....		6,976	3,912	3,064	3,986	74
Positions secured, previous applications .....		.....	8	8	.....	8
Total for year .....		6,976	3,920	3,056	3,986	66
FEMALES.						
1	Addressers .....	7	.....	7	.....	.....
2	Apprentices .....	1	.....	1	.....	.....
3	Attendants .....	1	1	.....	2	1
4	Bookkeepers .....	8	.....	8	.....	.....
5	Bottle labelers .....	7	2	5	2	.....
6	Canvassers .....	3	3	.....	6	3
7	Cashiers .....	13	.....	13	.....	.....
8	Clerks .....	8	1	7	3	2
9	Chambermaids .....	223	161	62	167	6
10	Companions .....	4	2	2	2	.....
11	Cooks .....	212	115	97	146	31
12	Copyists .....	1	.....	1	.....	.....
13	Daw workers .....	183	28	155	28	.....
14	Demonstrators .....	2	.....	2	.....	5
15	Diningroom help .....	48	46	2	55	9
16	Dishwashers .....	133	108	30	110	7
17	Domestics .....	499	478	21	852	374
18	Factory work .....	255	182	73	273	91
19	Folders, circulars .....	12	7	5	10	3
20	Governesses .....	2	.....	2	.....	.....
21	Housekeepers .....	108	71	37	117	46
22	Janitresses .....	9	1	8	1	.....
23	Kitchen help .....	148	106	42	114	8
24	Lady's maid .....	1	.....	1	.....	.....
25	Laundresses .....	112	106	15	109	6
26	Mail order help .....	.....	.....	2	.....	.....
27	Nurses .....	.....	29	23	36	7
28	Office woi .....	.....	5	32	5	.....

*West Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed	Number pos- itions secured.	Number unfilled.	Number filed.	Number unfilled.
29	Pantry work.....	27	13	14	16	3
30	Proof readers.....	1	1	1		
31	Reception service.....	2	2	2		
32	Scrubwomen.....	220	192	28	212	20
33	Seamstresses.....	17	16	1	63	47
34	Second work.....	33	16	17	21	5
35	Solicitors.....	8	8		18	10
36	Stenographers.....	15	4	11	6	2
37	Typewriters.....	1	1	1		
38	Waitresses.....	136	106	30	132	26
39	Wrappers.....	9	8	1	8	
40	Miscellaneous, occupation not stated...	28	23	5	25	2
	Total.....	2,593	1,830	763	2,544	714
	Positions secured, previous applica- tions.....		1	1		1
	Total for year.....	2,593	1,831	762	2,544	713

FOURTH ANNUAL REPORT OF THE PEORIA ILLINOIS FREE EMPLOYMENT OFFICE, FOR THE YEAR ENDED SEPT. 30, 1904.

(E. E. Walker, Superintendent.)

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HON. DAVID ROSS, *Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of an act creating Free Employment offices in this State, I herewith submit the fourth annual report of this office for the year ended September 30, 1904, together with an itemized statement of the expenses for maintaining this office for the year.

The work accomplished by this office during the past year compares favorably with that of previous years and demonstrates that free employment offices are of much benefit to the people of this State.

The following tables give in detail the work of this office for the time herein stated.

Respectfully submitted,

E. E. WALKER,  
*Superintendent.*

*Statement of the Expenses of the Peoria, Illinois Free Employment Office at Peoria for the Year ending Sept. 30, 1904.*

Salary of stenographer.....	\$720 00	Telegraph and messenger service...	7 26
Advertising.....	229 80	Towel supply, etc.....	13 20
Rent.....	780 00	Postage and express.....	65 15
Telephone and toll service.....	108 85	Cleaning offices.....	7 30
Extra office work.....	110 00	Stationery.....	12 06
Furniture.....	49 87	City directory.....	5 00
Janitor service.....	22 50	Miscellaneous.....	236 73
Ice.....	10 50		
Electric light service.....	21 15	Total.....	\$2,399 36

*Annual Report of the Peoria Free Employment Office to the State Bureau of Labor Statistics, for the Year ended Sept. 30, 1904—Applications for Employment and help, Positions secured and the Number Remaining unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfilled.	Number filed	Number unfilled.
MALES.						
1	Apprentices .....	13	11	2	11	.....
2	Bakers .....	10	5	5	5	.....
3	Barmen .....	109	105	4	108	1
4	Bartenders .....	1	1	.....	1	.....
5	Blacksmiths .....	19	15	4	15	.....
6	Boiler makers .....	1	.....	1	.....	.....
7	Bookkeepers .....	10	1	9	1	.....
8	Boys .....	6	5	1	5	.....
9	Boys, bell .....	22	22	.....	26	4
10	Boys, elevator .....	6	5	1	5	.....
11	Boys, delivery .....	92	84	8	87	3
12	Boys, errand .....	33	30	3	33	3
13	Boys, office .....	9	9	.....	9	.....
14	Boys, factory .....	28	28	2	31	5
15	Brakemen .....	6	6	.....	6	.....
16	Butchers .....	1	1	.....	1	.....
17	Candy makers .....	2	.....	2	.....	.....
18	Canvassers .....	10	10	.....	10	.....
19	Carpenters .....	39	25	14	28	3
20	Clerks .....	3	1	2	1	.....
21	Clerks, grocery .....	4	3	1	3	.....
22	Clerks, hotel .....	1	.....	1	.....	.....
23	Clerks, shipping .....	3	.....	1	.....	.....
24	Clerks, order .....	2	2	.....	2	.....
25	Coachmen .....	12	5	7	5	.....
26	Coal miners .....	5	4	1	4	.....
27	Coal weighers .....	2	2	.....	2	.....
28	Collectors .....	16	5	11	11	.....
29	Cooks .....	93	69	24	69	.....
30	Dairymen .....	14	13	1	13	.....

## Peoria Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
31	Dishwashers.....	59	59	.....	60	1
32	Distributors.....	2	2	.....	2	.....
33	Drivers.....	22	17	5	17	.....
34	Electricians.....	3	3	.....	8	.....
35	Engineers.....	17	9	8	10	1
36	Factory hands.....	307	269	38	282	13
37	Farm hands.....	161	145	16	148	3
38	Firemen.....	26	10	16	10	.....
39	Florists.....	1	.....	1	.....	.....
40	Gardeners.....	14	13	1	18	5
41	Harvest hands.....	40	40	.....	53	13
42	Hostlers.....	4	4	.....	4	.....
43	Housemen.....	36	31	5	32	1
44	Ice cutters.....	17	17	.....	17	.....
45	Iron workers.....	1	1	.....	1	.....
46	Janitors.....	47	29	18	29	.....
47	Kitchen work.....	11	11	.....	11	.....
48	Laborers.....	2,555	2,366	189	2,480	84
49	Laborers, railroad.....	115	115	.....	121	6
50	Lathe hands.....	1	.....	1	.....	.....
51	Laundrymen.....	1	1	.....	1	.....
52	Linemen, not stated.....	3	3	.....	3	.....
53	Machinists.....	23	9	14	9	.....
54	Malsters.....	1	1	.....	2	1
55	Metal workers.....	1	.....	.....	1	.....
56	Molders.....	8	8	.....	10	2
57	Nurses.....	3	2	1	2	.....
58	Office help.....	21	6	15	6	.....
59	Packers.....	2	2	.....	2	.....
60	Painters.....	32	21	11	21	.....
61	Paper hangers.....	1	1	.....	1	.....
62	Pan washers.....	3	3	.....	3	.....
63	Pattern makers.....	2	2	.....	2	.....
64	Pharmacists.....	1	.....	1	.....	.....
65	Pipe fitters.....	1	1	.....	1	.....
66	Plasterers.....	1	.....	1	.....	.....
67	Porters.....	91	76	15	76	.....
68	Pressers.....	1	1	.....	1	.....
69	Roofers.....	2	2	.....	2	.....
70	Salesmen.....	41	15	26	15	.....
71	Shovelers.....	34	34	.....	34	.....
72	Solicitors.....	9	9	.....	9	.....
73	Stenographers.....	1	.....	1	.....	.....
74	Stovemmen.....	2	2	.....	2	.....
75	Teamsters.....	185	168	17	170	2
76	Tinsmiths.....	1	.....	1	.....	.....
77	Upholsterers.....	1	.....	1	.....	.....
78	Waiters.....	26	17	9	17	.....
79	Watchmen.....	8	5	3	5	.....
80	Woodworkers.....	4	.....	4	.....	.....
81	Yardmen.....	73	72	1	74	2
Total males.....		4,594	4,099	495	4,252	153
FEMALES.						
1	Addressers.....	6	3	3	3	.....
2	Attendants.....	3	3	.....	3	.....
3	Bookkeepers.....	14	1	13	1	.....
4	Bottle labelers.....	1	1	.....	1	.....
5	Canvassers.....	12	12	.....	12	.....
6	Cashiers.....	4	2	2	2	.....
7	Clerks.....	16	5	11	5	.....
8	Collectors.....	1	.....	1	.....	.....
9	Chambermaids.....	111	104	7	104	.....
10	Companions.....	4	3	1	3	.....
11	Cooks.....	90	88	2	88	.....
12	Dayworkers.....	136	94	42	94	.....

*Peoria Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfiled.	Number filed.	Number unfiled.
13	Demonstrators.....	3	1	2	1	.....
14	Dining room help.....	178	174	4	175	1
15	Dishwashers.....	156	157	5	152	1
16	Distributors.....	2	2	.....	2	.....
17	Factory work.....	156	142	14	132	.....
18	General housework.....	808	800	8	1,041	241
19	Hotel help.....	9	4	5	4	.....
20	Housekeepers.....	95	73	22	73	.....
21	Janitresses.....	9	8	1	8	.....
22	Kitchen help.....	100	99	1	99	.....
23	Lady's maid.....	1	1	.....	1	.....
24	Laundresses.....	11	5	6	5	.....
25	Milliners.....	1	.....	1	.....	.....
26	Nurses.....	23	13	10	15	2
27	Office work.....	76	22	54	22	.....
28	Pantry work.....	23	22	1	22	.....
29	Nurse girls.....	31	28	3	28	.....
30	Proofreaders.....	1	.....	1	.....	.....
31	Silver girls.....	2	2	.....	2	.....
32	Scrubwomen.....	21	21	.....	21	.....
33	Seamstresses.....	19	15	4	15	.....
34	Second work.....	47	40	7	43	3
35	Solicitors.....	4	3	1	3	.....
36	Stenographers.....	30	7	23	7	.....
37	Vegetable cleaners.....	6	6	.....	7	1
38	Waitresses.....	13	13	.....	13	.....
39	Washerwomen.....	3	2	1	2	.....
	Total females.....	2,226	1,970	256	2,234	284

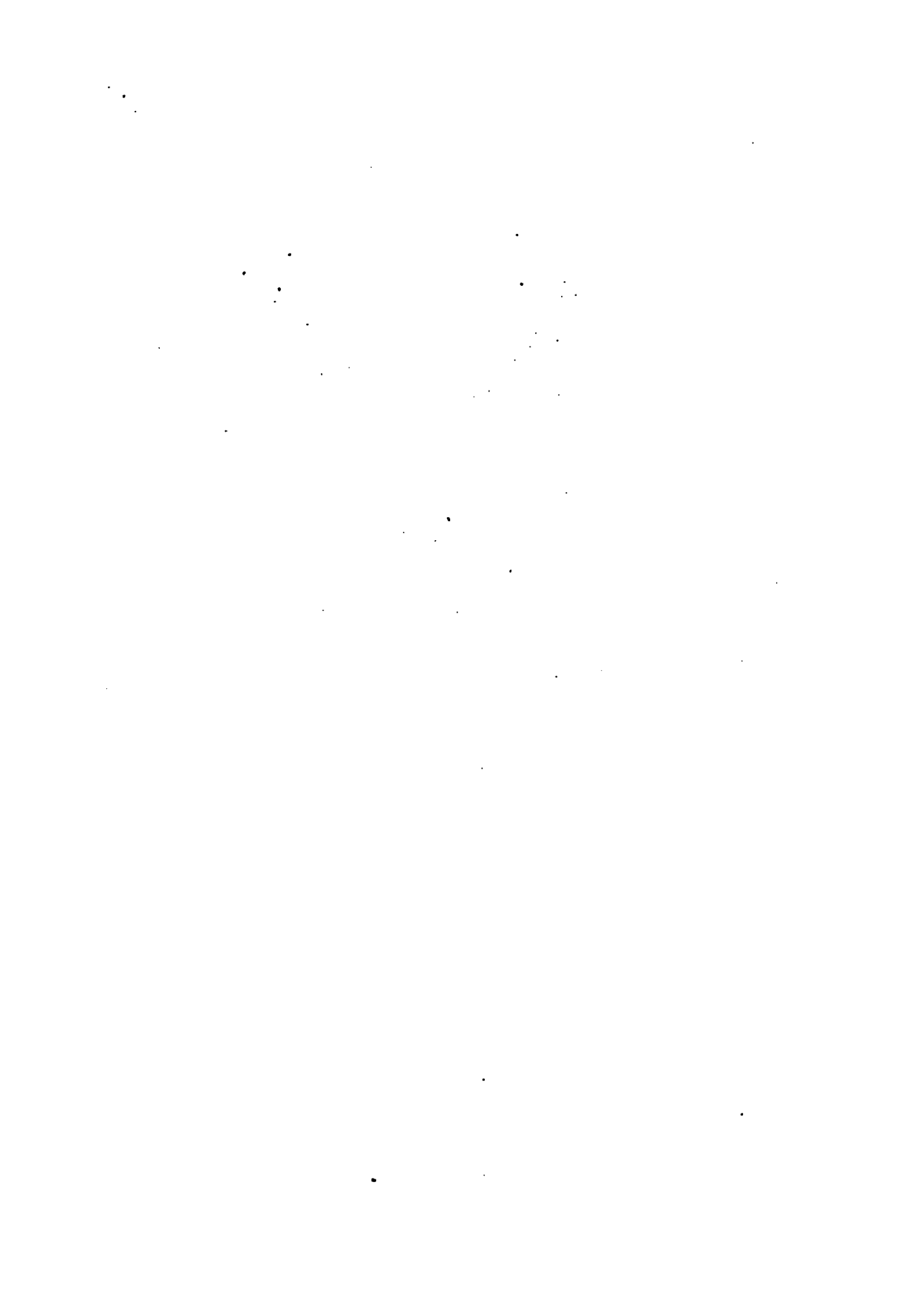












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